

 **Welt
Electronic**

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HARVATEK

LED COMPONENTS CATALOGUE

General Specification
Application Notes
Surface Mount Chip LED
High Power LED
Flash LED
SMD Display LED

Infrared LED
Digital Display LED
Lamp LED
COB
Yarn LED



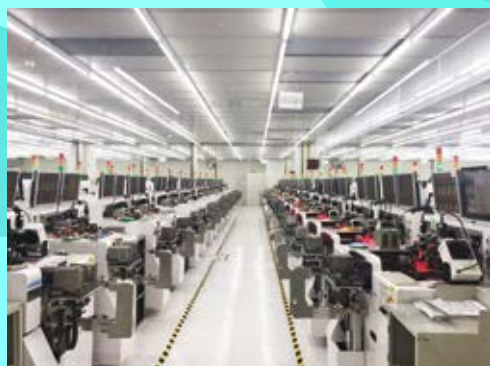
About Harvatek

Harvatek Corporation was founded in 1995 and are listed on Taiwan Stock Exchange (TWSE) in 2003 under ticker number 6168. Also one of the SMD LEDs leading manufacturers in the world with 800 employees worldwide.

The Global Technology Leader SMD LED














General Lighting / Display / back Lighting / handheld Device

Headquarters and Manufacturing










CATALOGUE

VISIBLE LED

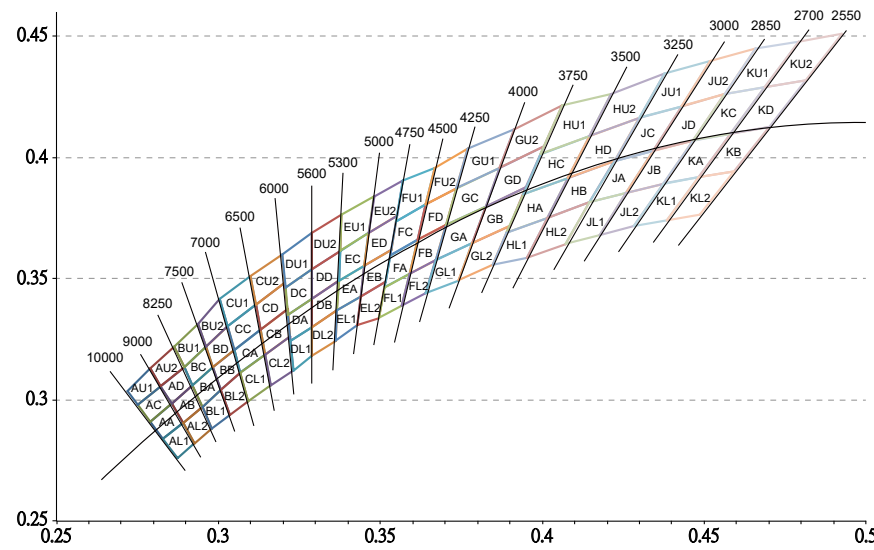
- 02  PCB / Top View
- 17  PCB / Side View
- 20  PCB / RGB+IC
- 22  PCB / Full Color
- 25  PCB / RGB Mixed White
- 27  PCB / RGB Display
- 32  Lead Frame / Flash LED
- 33  PLCC / Top View
- 38  PLCC / Side View
- 40  LED LAMP
- 42  LED LAMP / Display
- 45  COX Sevia
- 46  COX Sevia / LED Yarn

INFRARED LED

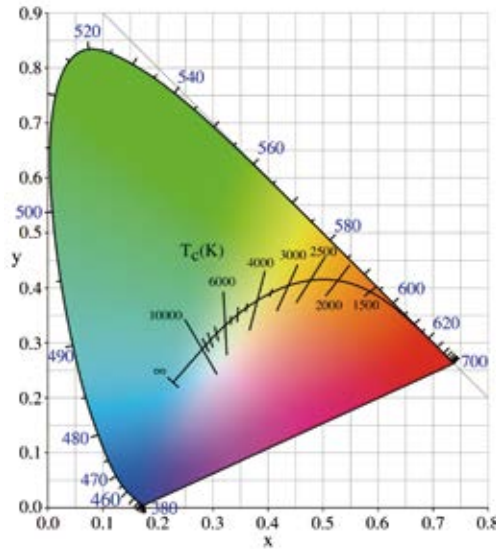
- 48  Emitter / Top View
- 59  Emitter / Side View
- 63  Phototransistor / Top View
- 66  Phototransistor / Side View
- 67  Photo Diode / Top View
- 69  Photo Diode / Side View
- Interrupter / Top View
- 70  Light Sensor

HARVATEK CORPORATION

Correlated Color Temperature Rank (Bin Table)



CIE 1931 Chromaticity Diagram



AA	0.283 0.284 0.279 0.291 0.285 0.298 0.289 0.290 0.283 0.284 0.289 0.290 0.285 0.298 0.292 0.306	BA	0.298 0.313 0.300 0.304 0.298 0.304 0.300 0.304 0.292 0.306 0.298 0.313 0.292 0.306 0.298 0.313	CA	0.313 0.329 0.314 0.318 0.313 0.329 0.313 0.329 0.306 0.311 0.313 0.329 0.311 0.339 0.311 0.339	DA	0.329 0.341 0.329 0.33 0.329 0.341 0.329 0.341 0.322 0.324 0.329 0.341 0.329 0.341 0.329 0.341	EA	0.345 0.355 0.344 0.342 0.345 0.355 0.345 0.355 0.336 0.336 0.351 0.348 0.344 0.342 0.337 0.349
AB	0.289 0.290 0.285 0.298 0.292 0.306 0.295 0.297 0.289 0.290	BB	0.304 0.320 0.304 0.320 0.304 0.320 0.300 0.304 0.300 0.304	CB	0.321 0.337 0.322 0.326 0.314 0.318 0.329 0.333 0.300 0.304	DB	0.337 0.349 0.336 0.336 0.329 0.333 0.344 0.342 0.344 0.342	EB	0.353 0.362 0.351 0.348 0.353 0.362 0.351 0.348 0.344 0.342
AC	0.279 0.291 0.275 0.298 0.282 0.305 0.285 0.298 0.279 0.291	BC	0.292 0.306 0.289 0.313 0.296 0.322 0.298 0.313 0.292 0.306	CC	0.311 0.339 0.313 0.329 0.311 0.339 0.311 0.339 0.304 0.320	DC	0.329 0.353 0.320 0.346 0.329 0.353 0.329 0.353 0.321 0.335	EC	0.346 0.368 0.345 0.355 0.346 0.368 0.345 0.355 0.337 0.349
AD	0.285 0.298 0.282 0.305 0.289 0.313 0.292 0.306 0.285 0.298	BD	0.298 0.313 0.296 0.322 0.302 0.330 0.304 0.320 0.298 0.313	CD	0.313 0.329 0.311 0.339 0.320 0.348 0.313 0.329 0.313 0.329	DD	0.337 0.349 0.337 0.349 0.337 0.349 0.337 0.349 0.329 0.341	ED	0.355 0.376 0.353 0.362 0.355 0.376 0.353 0.362 0.345 0.355
AL1	0.287 0.276 0.283 0.284 0.289 0.290 0.292 0.282 0.287 0.276	BL1	0.298 0.288 0.295 0.297 0.300 0.304 0.303 0.293 0.298 0.288	CL1	0.309 0.299 0.306 0.311 0.314 0.318 0.316 0.305 0.309 0.299	DL1	0.323 0.312 0.322 0.324 0.329 0.333 0.323 0.312 0.323 0.312	EL1	0.336 0.324 0.343 0.389 0.342 0.330 0.336 0.324 0.344 0.342
AL2	0.292 0.282 0.289 0.290 0.295 0.297 0.298 0.288 0.292 0.282	BL2	0.303 0.293 0.300 0.294 0.306 0.311 0.303 0.293 0.309 0.299	CL2	0.316 0.305 0.314 0.318 0.322 0.326 0.316 0.305 0.323 0.312	DL2	0.329 0.318 0.329 0.333 0.336 0.336 0.329 0.318 0.336 0.324	EL2	0.342 0.330 0.344 0.342 0.351 0.348 0.342 0.330 0.349 0.333
AU1	0.271 0.303 0.279 0.313 0.282 0.305 0.275 0.298 0.282 0.305	BU1	0.286 0.322 0.293 0.331 0.296 0.322 0.289 0.313 0.296 0.322	CU1	0.300 0.341 0.309 0.350 0.311 0.339 0.302 0.330 0.311 0.339	DU1	0.319 0.360 0.329 0.369 0.329 0.353 0.320 0.346 0.329 0.353	EU1	0.338 0.376 0.348 0.384 0.346 0.368 0.337 0.361 0.346 0.368
AU2	0.279 0.313 0.286 0.322 0.289 0.313 0.282 0.305	BU2	0.293 0.331 0.300 0.341 0.302 0.330 0.296 0.322	CU2	0.309 0.350 0.319 0.360 0.320 0.348 0.311 0.339	DU2	0.329 0.369 0.338 0.376 0.337 0.361 0.32 0.353	EU2	0.348 0.384 0.357 0.390 0.355 0.376 0.346 0.368

FA	0.351 0.346 0.353 0.359 0.361 0.365 0.359 0.352 0.351 0.346	GA	0.367 0.357 0.370 0.372 0.382 0.379 0.378 0.364 0.367 0.357	HA	0.388 0.369 0.394 0.384 0.408 0.391 0.401 0.375 0.388 0.369	JA	0.414 0.381 0.422 0.398 0.434 0.402 0.425 0.385 0.414 0.381	KA	0.437 0.389 0.446 0.407 0.458 0.409 0.448 0.391 0.437 0.389
FB	0.359 0.352 0.361 0.365 0.370 0.372 0.367 0.357 0.359 0.352	GB	0.378 0.364 0.382 0.379 0.395 0.387 0.389 0.371 0.378 0.364	HB	0.401 0.375 0.408 0.391 0.422 0.398 0.414 0.381 0.401 0.375	JB	0.425 0.385 0.434 0.402 0.446 0.407 0.437 0.389 0.425 0.385	KB	0.448 0.391 0.458 0.409 0.47 0.412 0.459 0.394 0.448 0.391
FC	0.353 0.359 0.354 0.373 0.364 0.380 0.361 0.365 0.353 0.359	GC	0.370 0.372 0.373 0.387 0.386 0.395 0.382 0.379 0.370 0.372	HC	0.394 0.384 0.399 0.401 0.414 0.408 0.408 0.391 0.394 0.384	JC	0.422 0.398 0.429 0.416 0.443 0.421 0.434 0.402 0.422 0.398	KC	0.446 0.407 0.456 0.426 0.468 0.428 0.458 0.409 0.446 0.407
FD	0.361 0.365 0.361 0.365 0.373 0.387 0.370 0.372 0.361 0.365	GD	0.382 0.379 0.395 0.387 0.400 0.404 0.395 0.387 0.382 0.379	HD	0.408 0.391 0.414 0.408 0.429 0.416 0.422 0.398 0.408 0.391	JD	0.434 0.402 0.443 0.421 0.456 0.426 0.446 0.407 0.434 0.402	KD	0.458 0.409 0.468 0.428 0.481 0.431 0.47 0.412 0.458 0.409
FL1	0.349 0.333 0.351 0.346 0.356 0.338 0.349 0.333 0.356 0.338	GL1	0.364 0.344 0.367 0.357 0.374 0.349 0.364 0.344 0.374 0.349	HL1	0.384 0.355 0.388 0.369 0.395 0.358 0.384 0.355 0.395 0.358	JL1	0.407 0.364 0.414 0.381 0.425 0.385 0.407 0.364 0.417 0.367	KL1	0.428 0.371 0.437 0.389 0.448 0.391 0.428 0.371 0.438 0.373
FL2	0.292 0.282 0.289 0.290 0.295 0.297 0.298 0.288 0.292 0.282	GL2	0.374 0.349 0.378 0.364 0.389 0.371 0.374 0.349 0.384 0.355	HL2	0.395 0.358 0.401 0.375 0.414 0.381 0.395 0.358 0.417 0.367	JL2	0.417 0.367 0.425 0.385 0.437 0.389 0.428 0.371 0.443 0.421	KL2	0.438 0.373 0.448 0.391 0.459 0.394 0.448 0.376 0.438 0.373
FU1	0.275 0.298 0.271 0.303 0.279 0.313 0.282 0.305 0.275 0.298	GU1	0.289 0.313 0.286 0.322 0.293 0.331 0.296 0.322 0.289 0.313	HU1	0.302 0.330 0.300 0.341 0.309 0.350 0.311 0.339 0.302 0.330	JU1	0.320 0.346 0.319 0.360 0.329 0.369 0.329 0.353 0.320 0.346	KU1	0.337 0.361 0.338 0.376 0.348 0.384 0.346 0.368 0.337 0.361
FU2	0.282 0.305 0.279 0.313 0.286 0.322 0.289 0.313 0.282 0.305	GU2	0.296 0.322 0.293 0.331 0.300 0.341 0.296 0.322 0.296 0.322	HU2	0.309 0.350 0.319 0.360 0.320 0.348 0.311 0.339 0.309 0.350	JU2	0.329 0.369 0.338 0.376 0.337 0.361 0.32 0.353 0.329 0.369	KU2	0.348 0.384 0.357 0.390 0.355 0.376 0.346 0.368 0.348 0.384

Precautions

- Avoid exposure to moist
- Anti-Static precaution must be taken when handling GaN, InGaN, and AlInGaP products.
- It is suggested to connect the unit with a current limiting resistor of the proper size.
- Avoid applying a reverse voltage beyond the specified limit.
- Avoid operation beyond the limits as specified by the absolute maximum ratings.
- Avoid direct contact with the surface through which the LED emits light.
- If possible, assemble the unit in a clean room or dust-free environment.

Storage

It's recommended to store the products in the following conditions:
Humidity: 60% RH Max.

Temperature: 5°C ~ 30°C (14°F ~ 86°F).

- Shelf life in sealed bag : 12 Month at <40°C and <90%RH. (Base on aluminum laminated moisture barrier bag.)
- After the bag is opened, devices that will be subjected to infrared reflow, vapor-phase reflow, or equivalent processing must be :
 1. Mounted within 72 hours at factory conditions of ≤ 30°C / 60%RH, or
 2. Stored at ≤ 10%RH with zip-lock sealed (time ≤ 168 hours)

Baking

Baking before soldering is recommended when the package has been unsealed for 4 weeks.

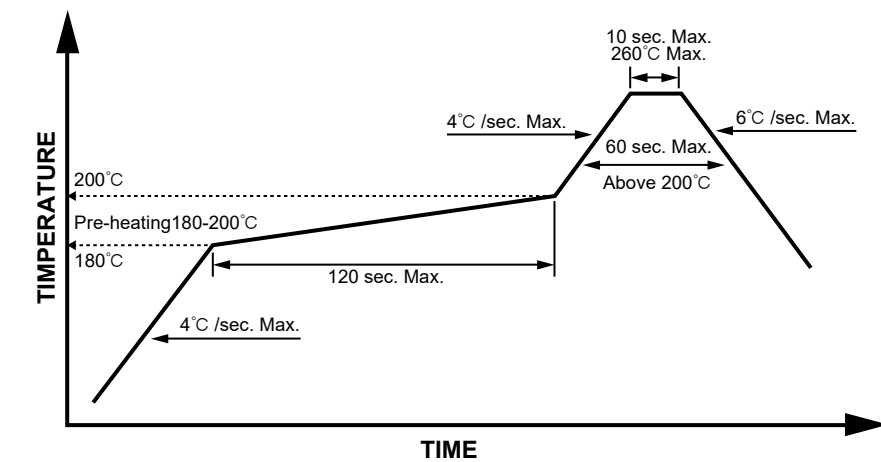
The conditions are as follows:

- 60±3°C ×(12~24hrs)and<5%RH, taped reel type.
- 100±3°C ×(45min~1hr), bulk type.
- 130±3°C ×(15min~30min), bulk type.

Soldering

Recommend soldering paste specifications:

- Operating temp.: Above 220°C, 60 sec.
- Peak temp.: 260°C Max., 10sec Max.
- Reflow soldering should not be done more than two times.
- Never attempt next process until the component is cooled down to room temperature after reflow.
- The recommended reflow soldering profile (measured on the surface of the LED terminal) is as following:



Cleaning

Following are cleaning procedures after soldering:

- An alcohol-based solvent such as isopropyl alcohol (IPA) is recommended.
- Temperature x Time should be 50°C x 30sec. or <30°C x 3min
- Ultrasonic cleaning: < 15W/ bath; bath volume ≤ 1liter max.
- Curing: 100°C max, <3min.

Cautions of Pick and Place

- Avoid stress on the resin at elevated temperature.
- Avoid rubbing or scraping the resin by any object.
- Electric-static may cause damage to the component. Please ensure that the equipment is properly grounded.
- Use of an ionizer fan is recommended.

Visble LED

Series	Dimension (L * W * H) Unit : mm	Surface	Description	
B0211	0.65 * 0.38 * 0.36	0201	Top View	Single Color
B0221	0.65 * 0.38 * 0.36	0201	Top View	Single Color
B1811	1.0 * 0.5 * 0.25	0402	Top View	Single Color
B1851	1.0 * 0.5 * 0.35	0402	Top View	Single Color
B2841	1.0 * 0.5 * 0.5	0402	Top View	Single Color
B18B1	1.05 * 0.6 * 0.25	0402	Top View	Single Color
B1381	1.6 * 0.8 * 0.37	0603	Top View	Bi-Color
B2972	1.6 * 0.8 * 0.5	0603	Top View	Bi-Color
B13B2	1.6 * 0.8 * 0.55	0603	Top View	Bi-Color
B19Y1	1.6 * 0.8 * 0.2	0603	Top View	Single Color
F1961	1.6 * 0.8 * 0.35	0603	Top View	Single Color
E1221	1.6 * 0.8 * 0.4	0603	Top View	Single Color
B1931	1.6 * 0.8 * 0.4	0603	Top View	Single Color
B1911	1.6 * 0.8 * 0.6	0603	Top View	Single Color
B18W1	1.6 * 0.8 * 0.95	0603	Top View	Single Color
B2G32	1.6 * 1.25 * 0.4	0605	Top View	Bi-Color
B36J3	0.65 * 0.65 * 0.5	0606	Top View	RGB Display / Common Anode
B36H3	0.69 * 0.69 * 0.5	0606	Top View	RGB Display / Common Anode
B36L3	0.65 * 0.65 * 0.5	0606	Top View	RGB Display / Common Cathode
B36S3	0.69 * 0.69 * 0.5	0606	Top View	RGB Display / Common Cathode
B17T2	2.0 * 1.3 * 0.5	0805	Top View	Bi-Color
E3743	2.0 * 1.3 * 0.5	0805	Top View	Full Color
B1701	2.0 * 1.3 * 0.8	0805	Top View	Single Color
B39P3	0.8 * 0.8 * 0.65	0808	Top View	RGB Display / Common Anode
B39D3	0.8 * 0.8 * 0.65	0808	Top View	RGB Display / Common Cathode
B3C93	0.95 * 0.95 * 0.25	1010	Top View	Full Color
B3C73	1.0 * 1.0 * 0.25	1010	Top View	Full Color / Mixed White
B3SD3	0.95 * 0.95 * 0.65	1010	Top View	RGB Display / Common Anode
B3SK3	0.95 * 0.95 * 0.65	1010	Top View	RGB Display / Common Cathode
B2632	3.2 * 1.2 * 0.8	1205	Top View	Bi-Color
B2601	3.2 * 1.2 * 1.1	1205	Top View	Single Color
B1501	3.2 * 1.6 * 1.1	1206	Top View	Single Color
B1591	3.2 * 1.6 * 1.85	1206	Top View	Single Color
B26B3	3.2 * 1.2 * 0.8	1206	Top View	Tri-Color
B1552	3.2 * 2.7 * 1.1	1210	Top View	Bi-Color
B2612	1.6 * 1.5 * 0.55	1616	Top View	Bi-Color
B2642	1.6 * 1.5 * 0.7	1616	Top View	Bi-Color
E3623	1.6 * 1.5 * 0.5	1616	Top View	Full Color
E3823	1.6 * 1.5 * 0.5	1616	Top View	Full Color
B3803	1.6 * 1.6 * 0.4	1616	Top View	Full Color
B3843	1.6 * 1.6 * 0.4	1616	Top View	Full Color
B38G3	1.6 * 1.6 * 0.4	1616	Top View	Mixed White
B3813	1.6 * 1.6 * 0.43	1616	Top View	Mixed White
T1651	3.5 * 2.8 * 0.75	2835	Top View	Single Color
T1361	3.0 * 1.4 * 0.8	3014	Top View	Single Color
T1591	3.0 * 2.0 * 1.3	3020	Top View	Single Color
T1571	3.0 * 2.1 * 0.8	3021	Top View	Single Color
T3232	3.0 * 3.0 * 0.52	3030	Top View	Bi-Color
T3231	3.0 * 3.0 * 0.52	3030	Top View	Single Color
T1681	3.5 * 2.7 * 1.9	3528	Top View	Single Color
T1691	3.5 * 2.8 * 1.9	3528	Top View	Single Color
T2682	3.5 * 2.8 * 1.9	3528	Top View	Tri-Color
T3683	3.5 * 2.8 * 1.9	3528	Top View	Tri-Color
B3DB3	1.6 * 1.6 * 0.9	1616+IC	Top View	Tri-Color

Visble LED

Series	Dimension (L * W * H) Unit : mm	Surface	Description	
B3DK3	2.0 * 2.0 * 0.9	2020+IC	Top View	Tri-Color
B3DJ3	2.0 * 2.0 * 0.9	2020+IC	Top View	Tri-Color
B3DQ3	3.2 * 1.5 * 1.0	3210+IC	Top View	Tri-Color
B339B	1.62 * 1.62 * 0.65	4 IN 1	Top View	RGB Display / Common Anode
B33FB	2.13 * 2.13 * 0.65	4 IN 1	Top View	RGB Display / Common Anode
B33NB	1.62 * 1.62 * 0.65	4 IN 1	Top View	RGB Display / Common Cathode
B33HB	1.63 * 1.63 * 0.65	4 IN 1	Top View	RGB Display / Common Cathode
B33QB	1.63 * 1.63 * 0.65	4 IN 1	Top View	RGB Display / Common Cathode
B3FYB	2.82 * 2.82 * 0.65	4 IN 1	Top View	RGB Display / Common Cathode
B33YB	2.82 * 2.82 * 0.65	4 IN 1	Top View	RGB Display / Common Cathode
T3A73	5.4 * 5.1 * 1.0	5050	Top View	Tri-Color
T3A83	5.42 * 5.0 * 1.6	5050	Top View	Tri-Color
T5301	5.7 * 3.0 * 0.9	5630	Top View	Single Color
U1711	3.5 * 2.7 * 1.85	3528	Top View	Single Color
CT91	15 * 15 * 1.95	COX	Top View	Single Color
CTP5	17.85 * 17.85 * 1.95	COX	Top View	Single Color
CT90	27.35 * 27.35 * 1.95	COX	Top View	Single Color
E17C1	2.04 * 1.64 * 0.65	FLASH	Top View	Single Color
F1041	3.8 * 1.0 * 0.44	010	Side View	Single Color
F1071	3.8 * 1.0 * 0.6	020	Side View	Single Color
B1861	1.0 * 0.55 * 0.3	0402	Side View	Single Color
B1211	1.6 * 1.0 * 0.6	0604	Side View	Single Color
B12H1	1.8 * 1.0 * 0.35	0704	Side View	Single Color
B31B3	2.0 * 1.4 * 0.9	0805	Side View	Full Color
B37B3	2.0 * 1.4 * 0.9	0805	Side View	Full Color
B3213	2.7 * 1.35 * 0.8	1203	Side View	Full Color
B2132	3.0 * 2.0 * 1.0	1204	Side View	Bi-Color
B2102	3.2 * 1.5 * 1.0	1204	Side View	Bi-Color
E3113	3.2 * 1.5 * 1.0	1204	Side View	Mixed White
V1181	3.2 * 1.1 * 0.8	1204	Side View	Single Color
V1081	2.8 * 1.2 * 0.8	1204	Side View	Single Color
B1101	3.2 * 1.5 * 1.0	1204	Side View	Single Color
B2592	3.2 * 2.55 * 1.6	1206	Side View	Bi-Color
B3173	3.2 * 1.5 * 1.0	1206	Side View	Full Color
B31G3	3.2 * 1.5 * 1.0	1206	Side View	Full Color
F1081	2.8 * 1.2 * 0.8	2808	Side View	Single Color
F3NC3	4.5 * 1.25 * 0.88	4509	Side View	Tri-Color
HCD89330	9.2(0.36)	Display	9.2(0.36)	Single Color
HCD89075	7.62(0.3)	Display	7.62(0.3)	Single Color
HCD89390	7(0.28)	Display	7(0.28)	Single Color
HV-8W15WTCB	5.0 Round LAMP	Lamp	5.0 Round LAMP	Single Color
HV-8NG15WCXL	5.0 Round LAMP	Lamp	5.0 Round LAMP	Single Color
HV-8B50-3778	5.0 Round LAMP	Lamp	5.0 Round LAMP	Single Color
HOVL-5Y40PAR-5825	5.0 Oval LAMP	Lamp	5.0 Oval LAMP	Single Color
HCD89203	31.8*31.8	Display	31.8*31.8	Single Color
HV-7W60TR-5394	3.0 Round LAMP	Lamp	3.0 Round LAMP	Single Color
HV-7Y36WCXL	3.0 Round LAMP	Lamp	3.0 Round LAMP	Single Color
HCD89429	25.5*10.1	Display	25.5*10.1	Single Color
HV-I7YG55L-MP9A	2.9 Round LAMP+Holder	Lamp	2.9 Round LAMP+Holder	Single Color
HCD89396	13.2(0.52)	Display	13.2(0.52)	Tri-Color
HCD89430	12.7*17.8	Display	12.7*17.8	Single Color
HCD89428	10(0.39)	Display	10(0.39)	Single Color

Infrared LED

Series	Series	Dimension (L * W * H) Unit : mm	Surface	Description	
Emitter	B2851	1.0 * 0.5 * 0.5	0402	Top View	Single Color
Emitter	B1911	1.6 * 0.8 * 0.6	0603	Top View	Single Color
Emitter	B19A1	1.6 * 0.8 * 0.66	0603	Top View	Single Color
Emitter	B13V1	1.6 * 0.8 * 0.66	0603	Top View	Single Color
Emitter	B13W1	1.6 * 0.8 * 0.66	0603	Top View	Single Color
Emitter	B19H1	1.6 * 0.8 * 0.88	0603	Top View	Single Color
Emitter	B13H1	1.6 * 0.8 * 0.88	0603	Top View	Single Color
Emitter	B18W1	1.6 * 0.8 * 0.95	0603	Top View	Single Color
Emitter	B15Y1	3.2 * 1.6 * 1.85	0603	Top View	Single Color
Emitter	B26H2	1.6 * 1.5 * 0.55	0605	Top View	Bi-Color
Emitter	B1701	2.0 * 1.3 * 0.8	0805	Top View	Single Color
Emitter	B17M1	2.0 * 1.3 * 0.8	0805	Top View	Single Color
Emitter	B15W1	3.2 * 1.6 * 1.85	1206	Top View	Single Color
Emitter	B15U1	3.2 * 1.6 * 1.85	1206	Top View	Single Color
Emitter	B15X1	3.2 * 1.6 * 1.85	1206	Top View	Single Color
Emitter	B1501	3.2 * 1.6 * 1.1	1206	Top View	Single Color
Emitter	B15T1	3.2 * 1.6 * 1.1	1206	Top View	Single Color
Emitter	B1591	3.2 * 1.6 * 1.85	1206	Top View	Single Color
Emitter	B15V1	3.2 * 1.6 * 1.85	1206	Top View	Single Color
Emitter	B15H2	3.2 * 2.7 * 1.1	1210	Top View	Bi-Color
Emitter	W2321	2.3 * 1.95 * 0.9	2320	Top View	Single Color
Emitter	T16W1	3.5 * 2.8 * 0.65	2835	Top View	Single Color
Emitter	T16P1	3.5 * 2.8 * 1.9	3528	Top View	Single Color
Emitter	T16C1	3.5 * 2.8 * 1.9	3528	Top View	Single Color
Emitter	C3521	3.5 * 3.5 * 3.38	3535	Top View	Single Color
Emitter	C3531	3.5 * 3.5 * 3.38	3535	Top View	Single Color
Emitter	C3541	3.5 * 3.5 * 3.38	3535	Top View	Single Color
Emitter	C3551	3.5 * 3.5 * 3.38	3535	Top View	Single Color
Emitter	T3A83	5.42 * 5.0 * 1.6	5050	Top View	Tri-Color
Emitter	T3A83	5.7 * 3.0 * 0.9	5630	Top View	Single Color
Emitter	T3A83	5.42 * 5.0 * 1.6	5050	Top View	Tri-Color

Infrared LED

Series	Series	Dimension (L * W * H) Unit : mm	Surface	Description	
Emitter	BTL11	3.6 * 3.2 * 3.4	Alpha5	Top View	Single Color
Emitter	B1861	1.0 * 0.55 * 0.3	0402	Side View	Single Color
Emitter	B12F1	1.6 * 1.0 * 0.6	0604	Side View	Single Color
Emitter	B1101	3.2 * 1.5 * 1.0	1204	Side View	Single Color
Emitter	B2571	3.2 * 2.55 * 1.6	1206	Side View	Single Color
Emitter	B2581	3.2 * 2.55 * 1.6	1206	Side View	Single Color
Emitter	B2151	3.0 * 2.0 * 1.0	1206	Side View	Single Color
Emitter	B2141	3.0 * 2.0 * 1.0	1206	Side View	Single Color
Emitter	B2591	3.2 * 2.55 * 1.6	1206	Side View	Single Color
Emitter	B4301	3.0 * 2.35 * 1.6	1209	Side View	Single Color
Emitter	F1081	2.8 * 1.2 * 0.8	2808	Side View	Single Color
Photo Transistor	B13V1	1.6 * 0.8 * 0.66	0603	Top View	Single Color
Photo Transistor	B19H1	1.6 * 0.8 * 0.88	0603	Top View	Single Color
Photo Transistor	B15Y1	3.2 * 1.6 * 1.85	0603	Top View	Single Color
Photo Transistor	B1701	2.0 * 1.3 * 0.8	0805	Top View	Single Color
Photo Transistor	B17L1	2.0 * 1.3 * 1.1	0805	Top View	Single Color
Photo Transistor	B1501	3.2 * 1.6 * 1.1	1206	Top View	Single Color
Photo Transistor	B15W1	3.2 * 1.6 * 1.85	1206	Top View	Single Color
Photo Transistor	T1691	3.5 * 2.8 * 1.9	3528	Top View	Single Color
Photo Transistor	B2151	3.0 * 2.0 * 1.0	1206	Side View	Single Color
Photo Transistor	B4301	3.0 * 2.35 * 1.6	1209	Side View	Single Color
Photo Diode	B17M1	2.0 * 1.3 * 0.8	0805	Top View	Single Color
Photo Diode	B1501	3.2 * 1.6 * 1.1	1206	Top View	Single Color
Photo Diode	B15W1	3.2 * 1.6 * 1.85	1206	Top View	Single Color
Photo Diode	B15P1	3.2 * 2.7 * 1.1	1211	Top View	Single Color
Photo Diode	B4471	4.4 * 3.7 * 0.85	1715	Top View	Single Color
Photo Diode	T1691	3.5 * 2.8 * 1.9	3528	Top View	Single Color
Photo Diode	B2151	3.0 * 2.0 * 1.0	1206	Side View	Single Color
Light Sensor	B19H1	1.6 * 0.8 * 0.88	0603	Top View	Single Color
Light Sensor	B19V1	1.7 * 0.8 * 0.66	0603	Top View	Single Color
Light Sensor	B15P1	3.2 * 2.7 * 1.1	1211	Top View	Single Color
Interrupter	B4192	1.9 * 1.4 * 0.65	0705	Top View	Bi-Color
Interrupter	T4642	4.6 * 3.4 * 1.62	4634	Top View	Bi-Color

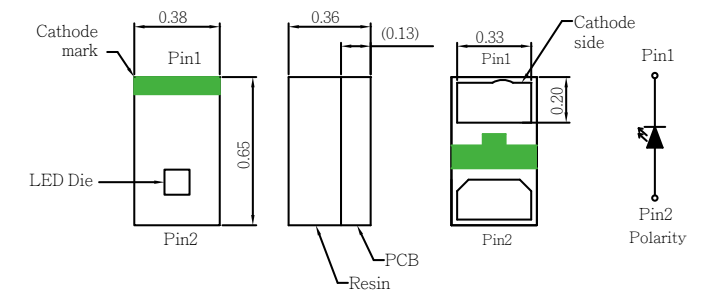
HARVATEK VISIBLE LED

VISIBLE LED PCB / Top View

B0211 Series

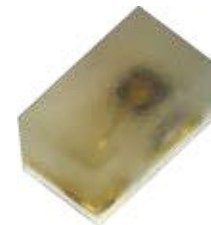


Outline Dimensions

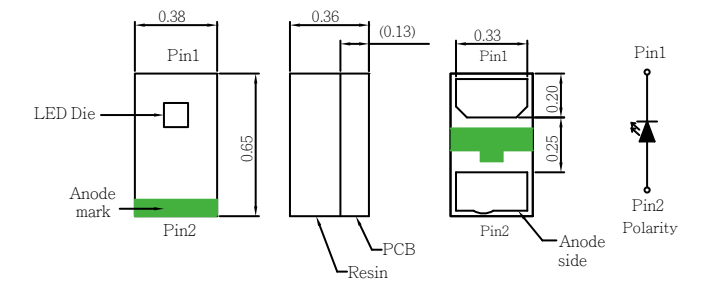


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		Luminous Intensity (mcd)		I _F (mA)
			Typ.	λ _D (nm)/ CIE (x, y)	Typ.		
B0211NG	0.65 * 0.38 * 0.36	● Green	2.50	531	100.0	2	
B0211NB		● Blue	2.60	468	15.0		
B0211BS		○ White	2.60	x=0.300 y=0.296	55		
B0211TXY		○ Warm White	2.60	x=0.433 y=0.393	70		

B0221 Series



Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		Luminous Intensity (mcd)		I _F (mA)
			Typ.	λ _D (nm)/ CIE (x, y)	Typ.		
B0221USD	0.65 * 0.38 * 0.36	● Red	1.80	621	7.15	2	
B0221UY		● Amber	1.90	588	9.00		
B0221UYG		● Yellow Green	1.90	570	5.00		

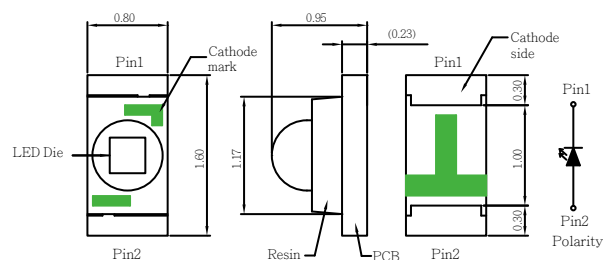
INTERNET OF THINGS APPLICATION



B18W1 Series

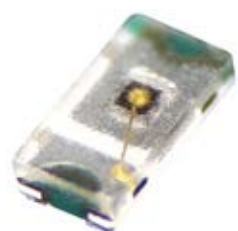


Outline Dimensions

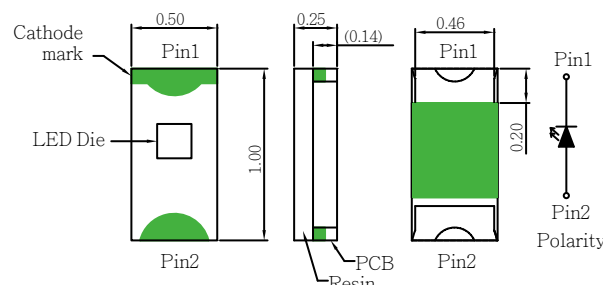


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B18W1USD	1.6 * 0.8 * 0.95	Red	2.00	624	715.0	20
B18W1UY		Amber	2.00	589	360.0	
B18W1UYG		Yellow Green	2.10	571	360.0	
B18W1NG		Green	3.30	525	2250.0	
B18W1NB		Blue	3.30	470	450.0	
B18W1TX		OWhite	2.90	x=0.290 y=0.285	130.0	5

B1811 Series



Outline Dimensions

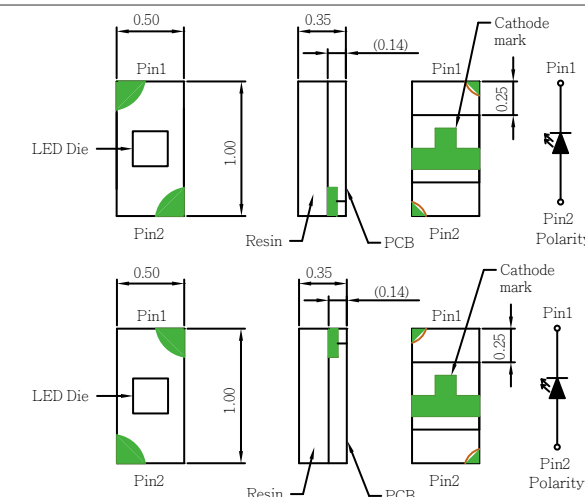


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B1811USD	1.0 * 0.5 * 0.25	Red	2.00	624	71.5	20
B1811UD		Orange	2.00	605	112.5	
B1811UY		Amber	2.00	589	71.5	
B1811UYG		Yellow Green	2.10	571	71.5	
B1811NG		Green	3.30	525	560.0	
B1811NB		Blue	3.30	470	140.0	
B1811TX	OWhite	2.80	x=0.290 y=0.285	320.0	5	

B1851 Series

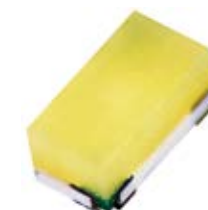


Outline Dimensions

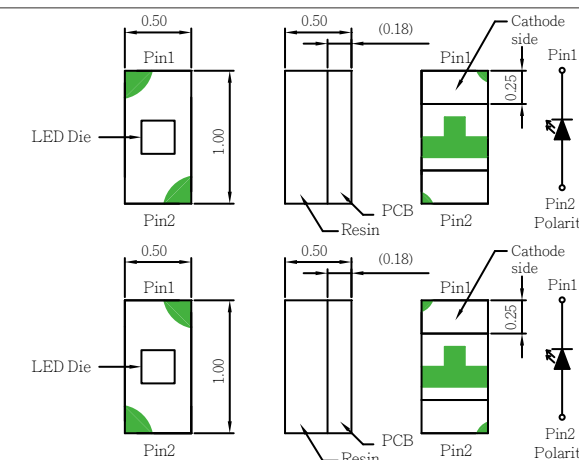


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B1851NG	1.0 * 0.5 * 0.35	Green	2.80	529	71.5	5
B1851NB		Blue	2.80	472	45.0	
B1851TX		OWhite	2.85	x=0.290 y=0.285	220.0	

B2841 Series



Outline Dimensions

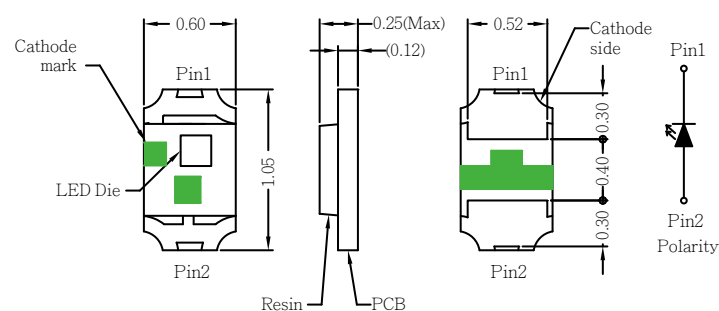


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B2841USD	1.0 * 0.5 * 0.5	Red	2.00	624	71.5	20
B2841UD		Orange	2.00	605	71.5	
B2841UYG		Yellow Green	2.10	571	71.5	
B2841NG		Green	3.30	525	285.0	
B2841NB		Blue	3.30	470	71.5	
B2841TX		OWhite	3.20	x=0.290 y=0.285	500.0	5
B2841USD		Red	2.00	624	18.0	
B2841NG		Green	2.80	529	71.5	
B2841NB		Blue	2.80	472	18.0	
B2841TX		OWhite	2.90	x=0.290 y=0.285	200.0	

B18B1 Series

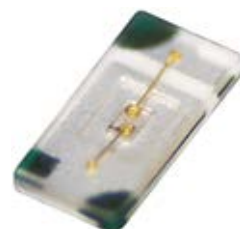


Outline Dimensions

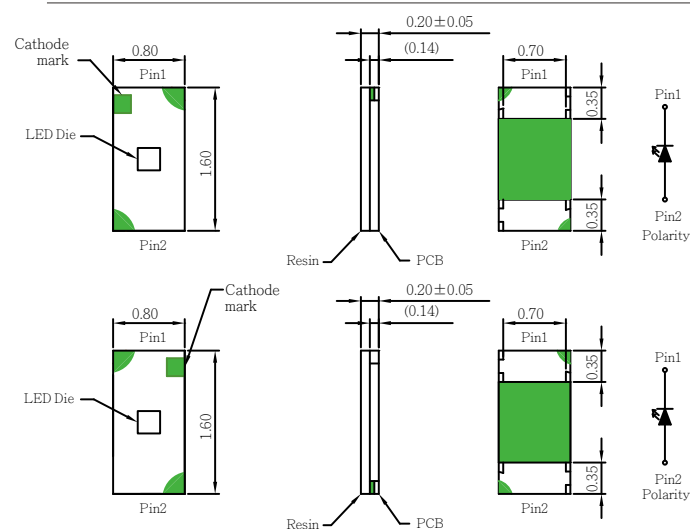


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B18B1NG	1.05 * 0.6 * 0.25	Green	2.80	529	71.5	5
B18B1NB		Blue	2.80	472	45.0	
B18B1TX		OWhite	2.80	x=0.290 y=0.285	100.0	

B19Y1 Series



Outline Dimensions

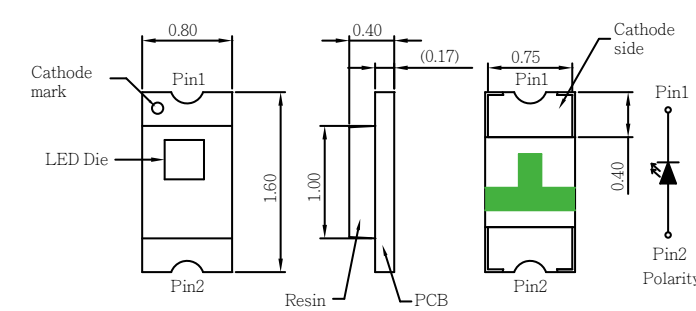


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B19Y1USD	1.6 * 0.8 * 0.2	Red	2.00	624	71.5	20
B19Y1UY		Amber	2.00	589	71.5	
B19Y1UYG		Yellow Green	2.10	571	45.0	
B19Y1NG		Green	3.30	525	285.0	
B19Y1NB		Blue	3.30	472	112.5	
B19Y1TX		OWhite	2.90	x=0.290 y=0.285	200.0	

B1931 Series



Outline Dimensions

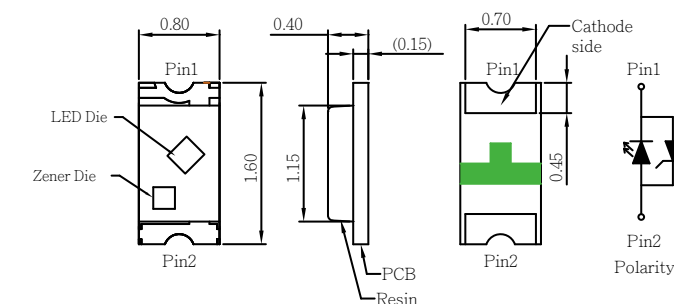


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)	
			Typ.		Typ.		
B1931USD	1.6 * 0.8 * 0.4	Red	2.00	624	71.5	20	
B1931UD		Orange	2.00	605	112.5		
B1931UY		Amber	2.00	589	71.5		
B1931NG		Green	3.30	525	285.0		
B1931NB		Blue	3.30	470	112.5		
B1931USD		Red	2.00	624	28.5		5
B1931UD		Orange	2.00	605	18.0		
B1931UY		Amber	2.00	589	28.5		
B1931UYG		Yellow Green	2.10	571	18.0		
B1931NG		Green	2.80	529	112.5		
B1931NB		Blue	2.80	472	28.5		
B1931TX		OWhite	2.90	x=0.290 y=0.285	200.0		

E1221 Series



Outline Dimensions

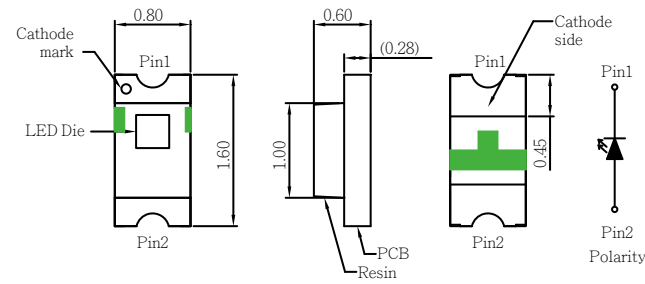


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
E1221TX	1.6 * 0.8 * 0.4	OWhite	2.85	x=0.290 y=0.285	200.0	5

B1911 Series



Outline Dimensions

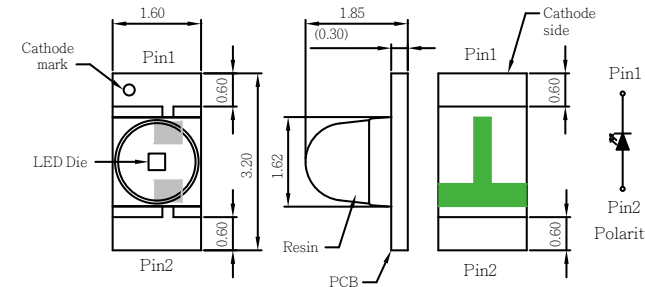


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B1911USD	1.6 * 0.8 * 0.6	● Red	2.00	624	45.0	20
B1911UD		● Orange	2.00	605	112.5	
B1911UY		● Amber	2.00	589	112.5	
B1911UYG		● Yellow Green	2.10	571	71.5	
B1911NG		● Green	3.30	525	285.0	
B1911NB		● Blue	3.30	470	71.5	
B1911TX		○ White	3.30	x=0.290 y=0.285	160.0	
B1911USD		● Red	2.00	624	36.0	5
B1911UY		● Amber	2.00	589	18.0	
B1911UYG		● Yellow Green	2.10	571	11.25	
B1911NB		● Blue	2.80	472	18.0	

B1591 Series
Reverse mountable



Outline Dimensions

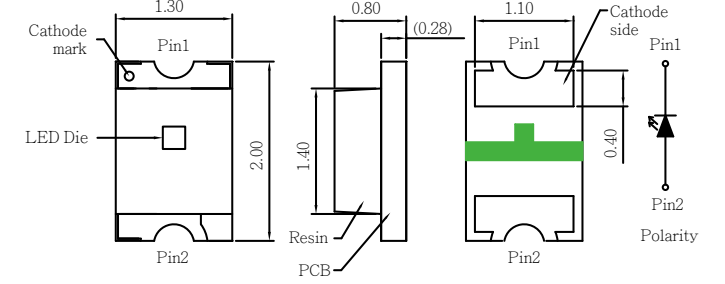


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B1591USD	3.2 * 1.6 * 1.85	● Red	2.00	624	900.0	20
B1591UD		● Orange	2.00	605	1800.0	
B1591UY		● Amber	2.00	589	1125.0	
B1591UYG		● Yellow Green	2.10	571	715.0	
B1591NG		● Green	3.30	525	1440.0	
B1591NB		● Blue	3.30	470	900.0	
B1591USD		● Red	2.00	624	360.0	5
B1591UYG		● Yellow Green	2.10	571	285.0	
B1591NB		● Blue	2.80	472	360.0	

B1701 Series



Outline Dimensions



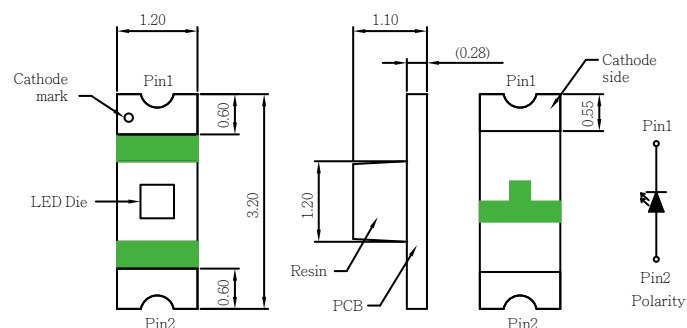
Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B1701USD	2.0 * 1.3 * 0.8	● Red	2.00	624	112.5	20
B1701UD		● Orange	2.00	605	71.5	
B1701UY		● Amber	2.00	589	71.5	
B1701UYG		● Yellow Green	2.10	571	71.5	
B1701NG		● Green	3.30	525	285.0	
B1701NB		● Blue	3.30	470	71.5	
B1701TX		○ White	3.30	x=0.290 y=0.285	550.0	
B1701UY		● Amber	2.00	589	11.25	5
B1701UYG		● Yellow Green	2.10	571	11.25	
B1701NG		● Green	2.80	529	71.5	
B1701NB		● Blue	2.80	472	45.0	

B2601 Series

Reverse mountable



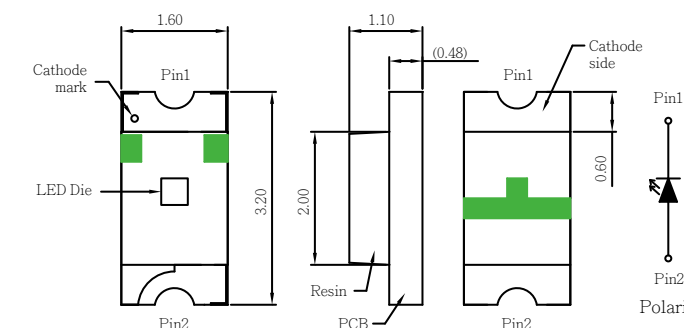
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B2601USD	3.2 * 1.2 * 1.1	● Red	2.00	624	112.5	20
B2601UY		● Amber	2.00	589	180.0	
B2601UYG		● Yellow Green	2.10	571	71.5	
B2601NG		● Green	3.30	525	360.0	
B2601NB		● Blue	3.30	470	112.5	
B2601TX		○ White	3.30	x=0.290 y=0.285	180.0	
B2601USD		● Red	2.00	624	18.0	
B2601UD	● Orange	2.00	605	18.0		
B2601UY	● Amber	2.00	589	18.0		
B2601UYG	● Yellow Green	2.10	571	11.25		
B2601NG	● Green	2.80	529	180.0		
B2601NB	● Blue	2.80	472	18.0		
B2601TX	○ White	2.90	x=0.290 y=0.285	90.0		

B1501 Series

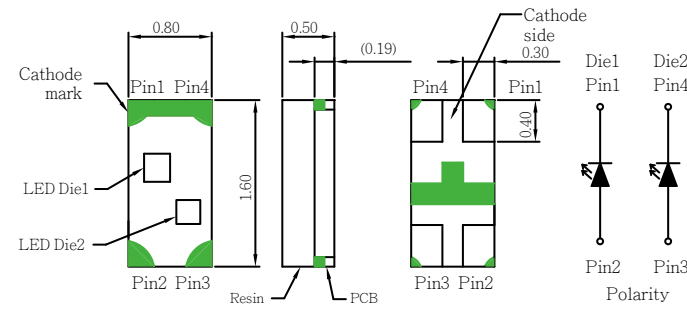
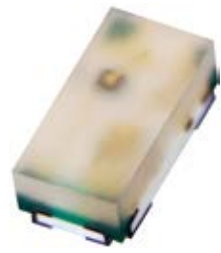
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)	
			Typ.		Typ.		
B1501UR	3.2 * 1.6 * 1.1	● Super Red	1.80	643	18.0	20	
B1501USD		● Red	2.00	624	71.5		
B1501UD		● Orange	2.00	605	71.5		
B1501UY		● Amber	2.00	589	71.5		
B1501UYG		● Yellow Green	2.10	571	71.5		
B1501YG		● Yellow Green	2.20	573	18.0		
B1501NG		● Green	3.30	525	285.0		
B1501NB		● Blue	3.30	470	112.5		
B1501TX		○ White	3.30	x=0.290 y=0.285	350.0		
B1501USD		● Red	2.00	624	18.0		5
B1501UD		● Orange	2.00	605	11.25		
B1501UYG		● Yellow Green	2.10	571	11.25		
B1501NB		● Blue	2.80	472	28.5		

B2972 Series

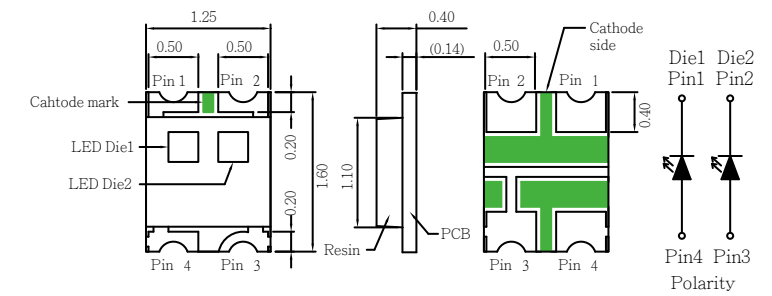
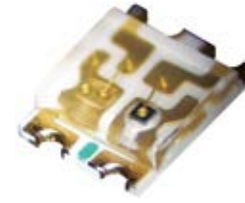
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B2972USUG*	AEC-Q	Red	2.00	624	112.5	20
		Yellow Green	2.10	571	71.5	
B2972USNG	1.6 * 0.8 * 0.5	Red	2.00	624	112.5	20
		Green	3.30	525	180.0	
B2972USNB		Red	2.00	624	71.5	20
		Blue	3.30	470	71.5	
B2972UDUG		Orange	2.00	605	71.5	20
		Yellow Green	2.10	571	71.5	
B2972UDNB		Orange	2.00	605	71.5	20
		Blue	3.30	470	71.5	
B2972UGNB		Yellow Green	2.10	571	71.5	20
		Blue	3.30	470	71.5	
B2972USNB		Red	2.00	624	28.5	5
		Blue	2.80	472	28.5	
B2972UDNB		Orange	2.00	605	18.0	5
		Blue	2.80	472	18.0	
B2972UGNB		Yellow Green	2.10	571	18.0	5
		Blue	2.80	472	28.5	

B2G32 Series

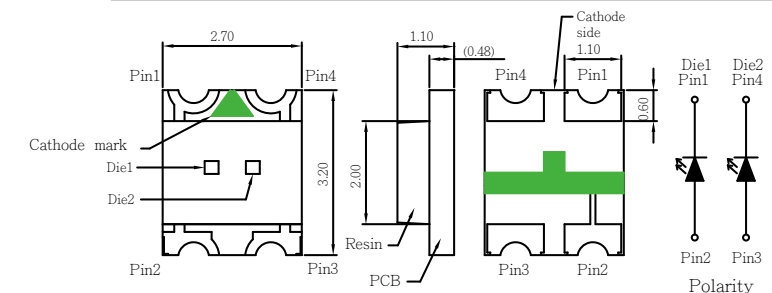
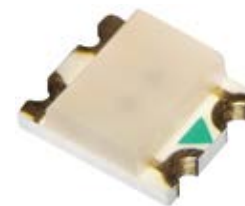
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B2G32USNB	1.6 * 1.25 * 0.4	Red	2.00	624	45.0	20
B2G32UYUG		Blue	3.30	470	28.5	
		Amber	2.00	589	45.0	
B2G32NBUD		Yellow Green	2.10	571	28.5	
		Blue	3.30	470	112.5	
B2G32NBUY		Orange	2.00	605	112.5	
	Blue	3.30	470	112.5		
		Amber	2.00	589	71.5	

B1552 Series

Outline Dimensions

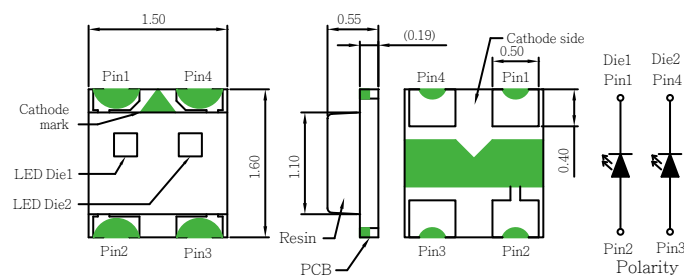


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B1552USUY	3.2 * 2.7 * 1.1	Red	2.00	624	112.5	20
B1552USUG		Amber	2.00	589	71.5	
		Red	2.00	624	71.5	
B1552USNB		Yellow Green	2.10	571	45.0	
		Red	2.00	624	112.5	
B1552UYUG		Blue	3.30	470	112.5	
		Amber	2.00	589	112.5	
B1552UYNB		Yellow Green	2.10	571	71.5	
		Amber	2.00	589	112.5	
B1552USNB		Blue	3.30	470	112.5	
	Red	2.00	624	28.5		
		Blue	2.80	472	28.5	5

B2612 Series

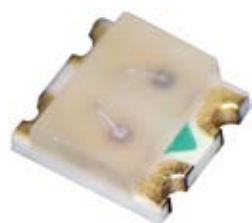


Outline Dimensions

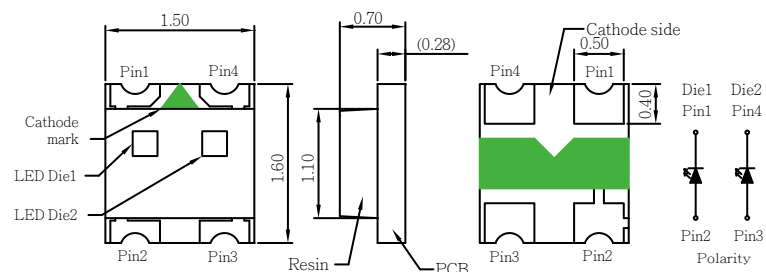


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Typ.	Typ.		Typ.	Typ.	
B2612USUG	1.6 * 1.5 * 0.55	Red	2.00		624	112.5	20	
		Yellow Green	2.10		571	71.5		
B2612USNB		Red	2.00		624	71.5		
		Blue	3.30		470	71.5		
B2612UDUG		Orange	2.00		605	71.5		
		Yellow Green	2.10		571	45.0		
B2612UDNB		Orange	2.00		605	71.5		
		Blue	3.30		470	71.5		
B2612UGUY		Yellow Green	2.10		571	45.0	5	
		Amber	2.00		589	71.5		
		Yellow Green	2.10		571	71.5		
B2612UGNB		Blue	3.30		470	71.5		
B2612UDNB		Orange	2.00		605	28.5	5	
		Blue	2.80		472	18.0		
		Orange	2.00		605	28.5		
B2612UDTX		OWhite	2.90		x=0.290 y=0.285	90.0		
B2612UYNG	Amber	2.00		589	28.5			
	Green	2.80		529	71.5			

B2642 Series



Outline Dimensions



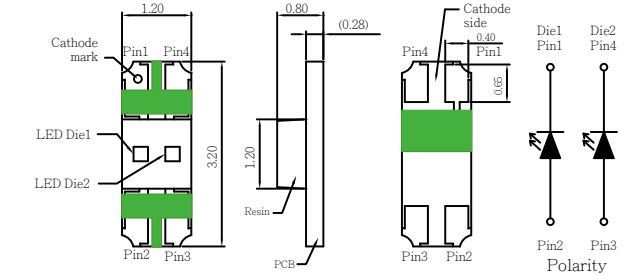
Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Typ.	Typ.		Typ.	Typ.	
B2642USUG	1.6 * 1.5 * 0.7	Red	2.00		624	71.5	20	
		Yellow Green	2.10		571	45.0		

B2632 Series

Reverse mountable



Outline Dimensions



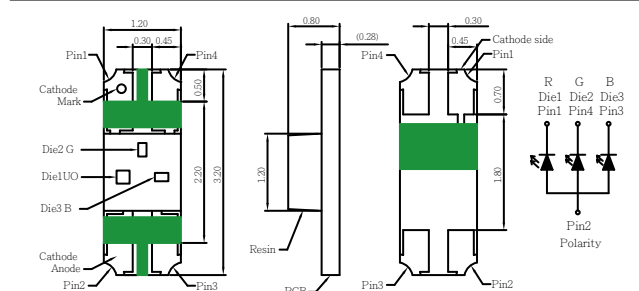
Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Typ.	Typ.		Typ.	Typ.	
B2632USUG	3.2 * 1.2 * 0.8	Red	2.00		624	112.5	20	
		Yellow Green	2.10		571	71.5		
B2632USNG		Red	2.00		624	180.0		
		Green	3.30		525	285.0		
B2632USNB		Red	2.00		624	45.0		
		Blue	3.30		470	71.5		
B2632USNG		Red	2.00		624	45.0	5	
		Green	2.80		529	112.5		
		Orange	2.00		605	18.0		
B2632UDNB		Blue	2.80		472	28.5		

B26B3 Series

Reverse mountable



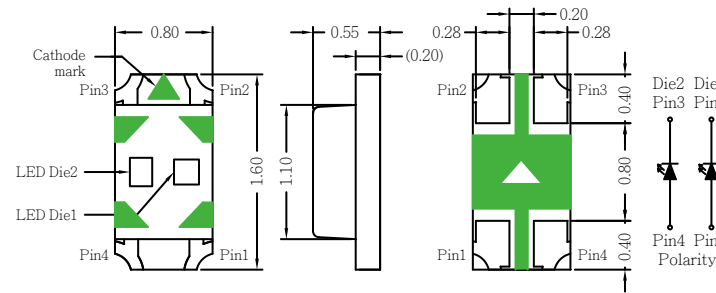
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Min.	Max.		Typ.	Typ.	
B26B3RGB	3.2 * 1.2 * 0.8	Red	1.60	2.40	624	71.5	20	
		Green	2.70	3.90	525	285.0		
		Blue	2.70	3.90	470	71.5		

B13B2 Series

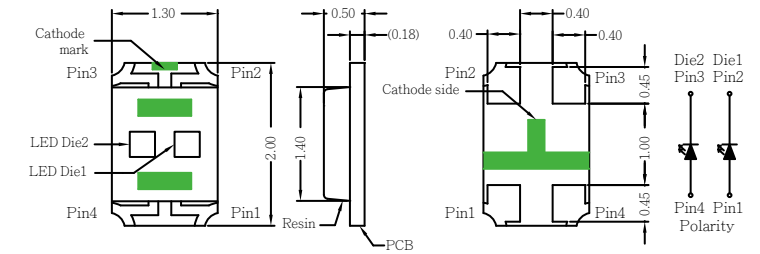
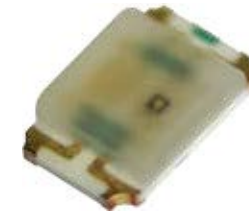
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)	
			Typ.		Typ.		
B13B2UYNB	1.6 * 0.8 * 0.55	Amber	2.00	589	112.5	20	
		Blue	3.30	470	112.5		
B13B2USUG		Red	2.00	624	112.5		
		Yellow Green	2.10	571	71.5		
B13B2USNG		Red	2.00	624	112.5		
		Green	3.30	525	180.0		
B13B2USNB		Red	2.00	624	71.5		20
		Blue	3.30	470	71.5		
B13B2UDUG		Orange	2.00	605	71.5		5
		Yellow Green	2.10	571	71.5		
B13B2UDNB	Orange	2.00	605	71.5			
	Blue	3.30	470	71.5			
B13B2UGNB	Yellow Green	2.10	571	71.5			
	Blue	3.30	470	71.5			
B13B2USNB	Red	2.00	624	28.5	5		
	Blue	2.80	472	28.5			
B13B2UDNB	Orange	2.00	605	18.0			
	Blue	2.80	472	18.0			
B13B2UGNB	Yellow Green	2.10	571	18.0			
	Blue	2.80	472	28.5			
B13B2UDTX	Orange	2.00	605	18.0			
	OWhite	2.80	x=0.2900 y=0.2850	130.0			

B17T2 Series

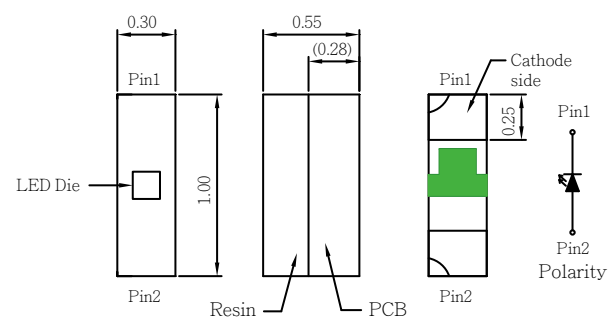
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)	
			Typ.		Typ.		
B17T2USUG	2.0 * 1.3 * 0.5	Red	2.00	624	112.5	20	
		Yellow Green	2.10	571	71.5		
B17T2USNG		Red	2.00	624	112.5		
		Green	3.30	525	285.0		
B17T2USNB		Red	2.00	624	71.5		20
		Blue	3.30	470	71.5		
B17T2UDUG		Orange	2.00	605	71.5		5
		Yellow Green	2.10	571	71.5		
B17T2UDNB		Orange	2.00	605	71.5		
		Blue	3.30	470	71.5		
B17T2UGNB	Yellow Green	2.10	571	71.5			
	Blue	3.30	470	71.5			
B17T2UDTX	Orange	2.00	605	71.5			
	OWhite	3.30	x=0.2900 y=0.2850	350.0			
B17T2USNB	Red	2.00	624	28.5	5		
	Blue	2.80	472	45.0			
B17T2UDNB	Orange	2.00	605	18.0			
	Blue	2.80	472	45.0			
B17T2UGNB	Yellow Green	2.10	571	11.25			
	Blue	2.80	472	45.0			
B17T2UDTX	Orange	2.00	605	71.5			
	OWhite	3.00	x=0.2900 y=0.2850	100.0			

B1861 Series

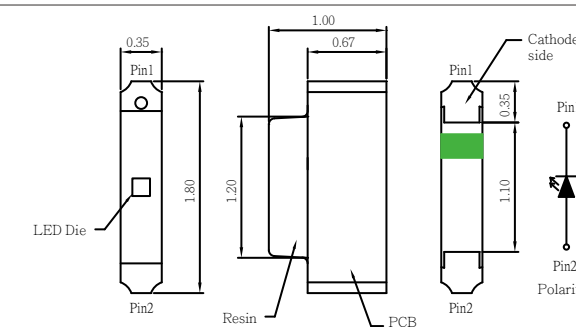
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B1861NG	1.0 * 0.55 * 0.3	● Green	2.80	529	71.5	5
B1861NB		● Blue	2.80	472	28.5	
B1861TX		○ White	2.90	x=0.290 y=0.285	100.0	

B12H1 Series

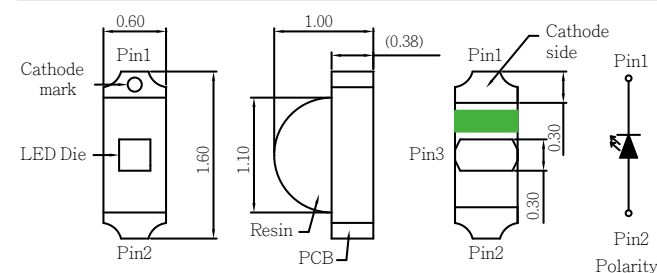
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B12H1USD	1.8 * 1.0 * 0.35	● Red	2.00	624	18.0	5
B12H1NG		● Green	3.30	525	180.0	20
B12H1NB		● Blue	3.30	470	112.5	
B12H1TX		○ White	2.90	x=0.290 y=0.285	120.0	5

B1211 Series

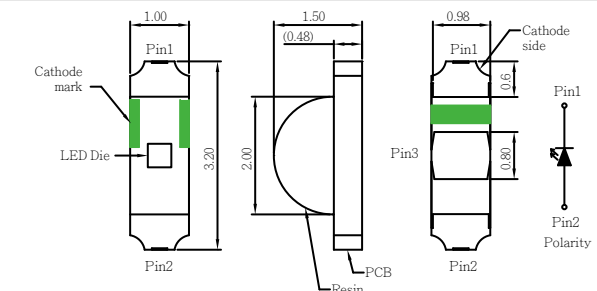
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B1211USD	1.6 * 1.0 * 0.6	● Red	2.00	624	112.5	20
B1211UD		● Orange	2.00	605	71.5	
B1211UY		● Amber	2.00	589	112.5	
B1211UYG		● Yellow Green	2.10	571	112.5	
B1211NG		● Green	3.30	525	285.0	
B1211NB		● Blue	3.30	470	71.5	
B1211TX		○ White	3.30	x=0.290 y=0.285	300.0	5
B1211UD		● Orange	2.00	605	28.5	
B1211UY		● Amber	2.00	589	28.5	
B1211UYG		● Yellow Green	2.10	571	28.5	
B1211NG		● Green	2.80	529	112.5	
B1211NB		● Blue	2.80	472	28.5	
B1211TX		○ White	2.90	x=0.290 y=0.285	100.0	

B1101 Series

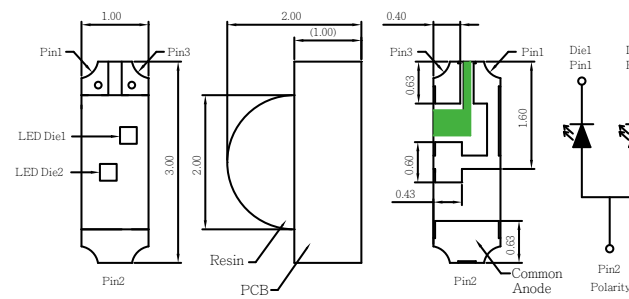
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
B1101USD	3.2 * 1.5 * 1.0	● Red	2.00	624	71.5	20
B1101UY		● Amber	2.00	589	71.5	
B1101UYG		● Yellow Green	2.10	571	45.0	
B1101NG		● Green	3.30	525	360.0	
B1101NB		● Blue	3.30	470	71.5	
B1101TX		○ White	3.30	x=0.290 y=0.285	300.0	
B1101USD		● Red	2.00	624	28.5	5
B1101UD		● Orange	2.00	605	28.5	
B1101UY		● Amber	2.00	589	45.0	
B1101UYG		● Yellow Green	2.10	571	18.0	
B1101NB		● Blue	2.80	472	28.5	

B2132 Series

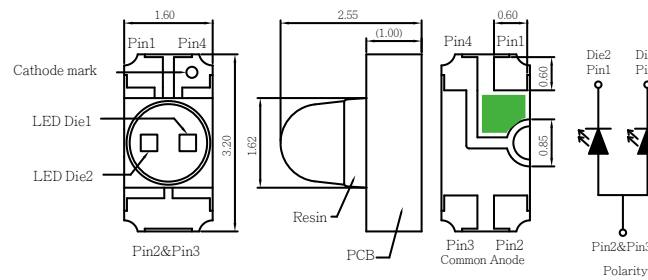
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Typ.			Typ.		
B2132USUG	3.0 * 2.0 * 1.0	● Red	2.00		624	112.5		20
		● Yellow Green	2.10		571	71.5		

B2592 Series

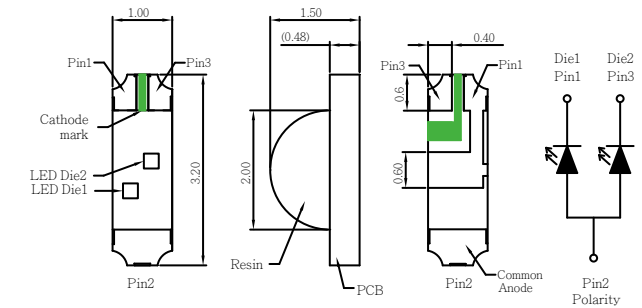
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Typ.			Typ.		
B2592USNG	3.2 * 2.55 * 1.6	● Red	2.00		624	71.5		20
		● Green	3.30		525	285.0		
B2592UDUG		● Orange	2.00		605	112.5		
		● Yellow Green	2.10		571	71.5		

B2102 Series

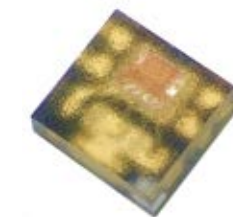
Outline Dimensions



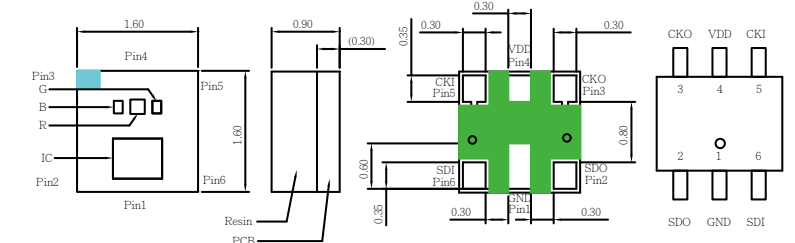
Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Typ.			Typ.		
B2102USUG	3.2 * 1.5 * 1.0	● Red	2.00		624	71.5		20
		● Yellow Green	2.10		571	71.5		
B2102USNG		● Red	2.00		624	71.5		
		● Green	3.30		525	285.0		
B2102USNB		● Red	2.00		624	71.5		
		● Blue	3.30		470	71.5		
B2102UDUG		● Orange	2.00		605	71.5		
		● Yellow Green	2.10		571	71.5		
B2102UDNG		● Orange	2.00		605	71.5		
		● Green	3.30		525	285.0		
B2102UDNB		● Orange	2.00		605	71.5		
		● Blue	3.30		470	45.0		
B2102UYNG	● Amber	2.00		589	71.5			
	● Green	3.30		525	285.0			
B2102UGNB	● Yellow Green	2.10		571	71.5			
	● Blue	3.30		470	71.5			

PCB / RGB+IC

B3DB3 Series



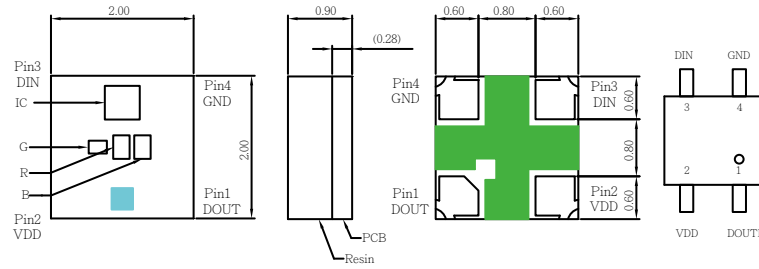
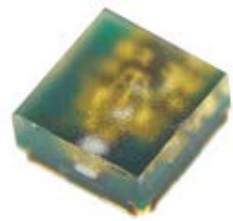
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)		I _F (mA)
			Min.	Max.		Typ.		
B3DB3BRG	1.6 * 1.6 * 0.9	● Blue	2.40	3.40	466	24.0		5
		● Red	1.60	2.40	620	70.0		
		● Green	2.40	3.40	526	117.0		

B3DK3 Series

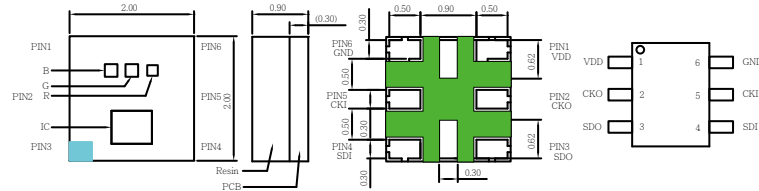
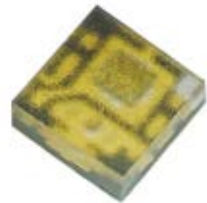
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3DK3BRG	2.0 * 2.0 * 0.9	Blue	2.40	3.40	466	24.0	5
		Red	1.60	2.40		70.0	
		Green	2.40	3.40		117.0	

B3DJ3 Series

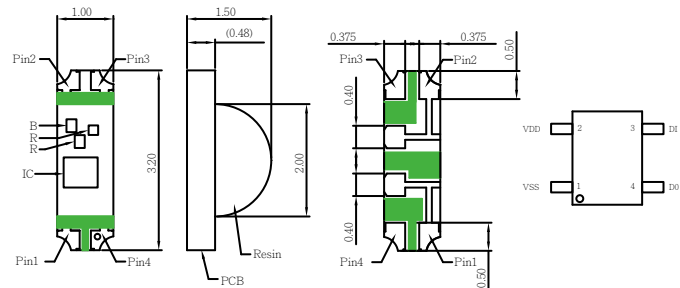
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3DJ3BRG	2.0 * 2.0 * 0.9	Blue	2.40	3.40	466	24.0	5
		Red	1.60	2.40		70.0	
		Green	2.40	3.40		117.0	

B3DQ3 Series

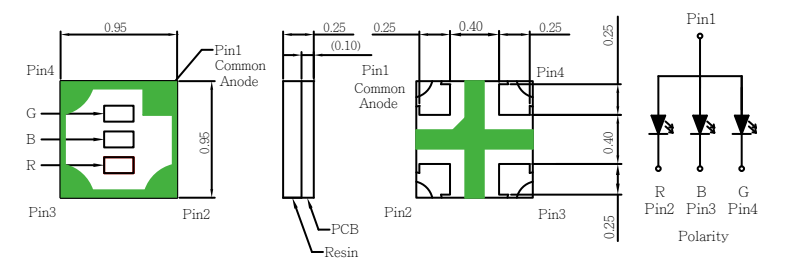
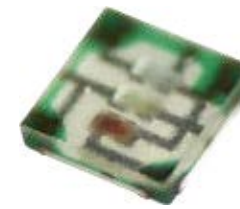
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3DQ3BRG	3.2 * 1.5 * 1.0	Blue	2.40	3.40	466	26.0	5
		Red	1.80	2.60		78.0	
		Green	2.40	3.40		142.0	

B3C93 Series

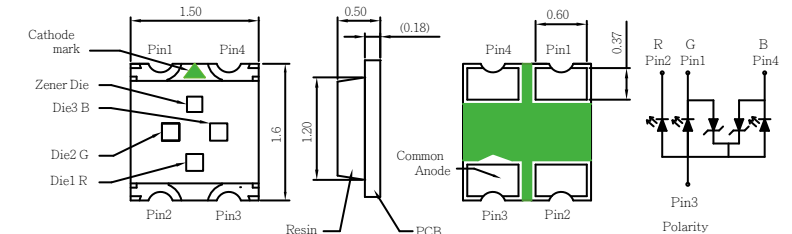
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3C93BRG	0.95 * 0.95 * 0.25	Red	1.60	2.40	622	65.0	2
		Green	2.40	3.40		180.0	
		Blue	2.40	3.40		35.0	

E3623 Series

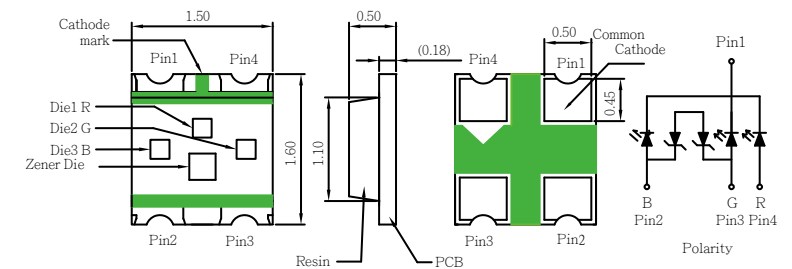
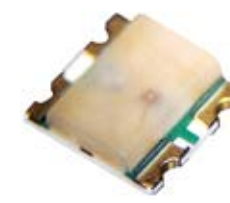
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
E3623RGB	1.6 * 1.5 * 0.5	Red	1.60	2.40	621	100.0	10
		Green	2.70	3.30		360.0	
		Blue	2.70	3.80		468	

E3823 Series

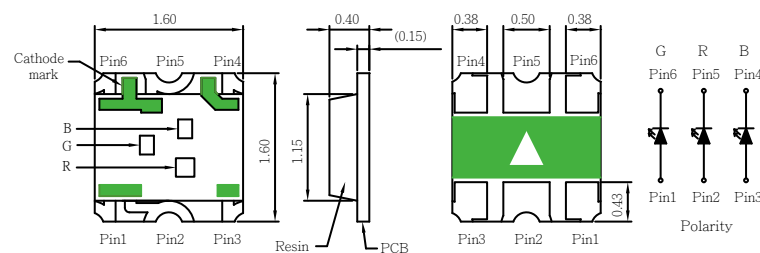
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
E3823RGB	1.6 * 1.5 * 0.5	Red	1.70	2.30	620	105.0	10
		Green	2.90	3.30		358.0	
		Blue	2.90	3.30		470	

B3803 Series

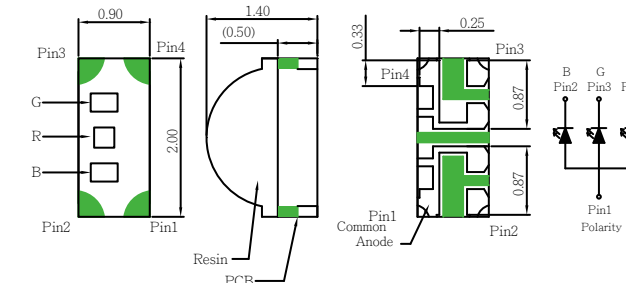
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3803RGB	1.6 * 1.6 * 0.4	● Red	1.60	2.40	624	112.5	20
		● Green	2.70	3.90	525	180.0	
		● Blue	2.70	3.90	470	71.5	

B31B3 Series

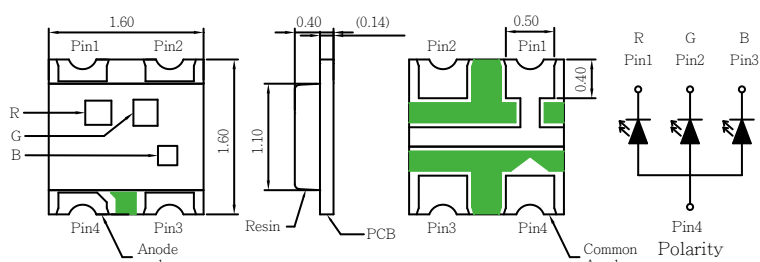
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B31B3BGR	2.0 * 1.4 * 0.9	● Red	1.80	2.40	620	240.0	20
		● Green	2.60	3.40	517	450.0	
		● Blue	2.60	3.40	462	95.0	

B3843 Series

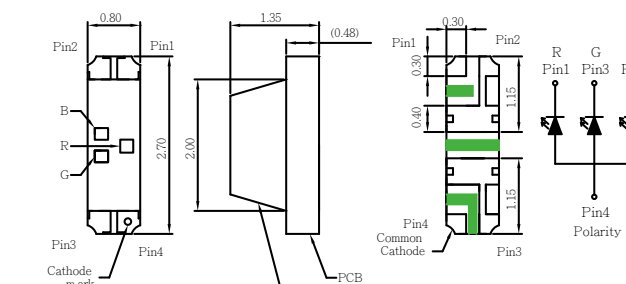
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3843RGB	1.6 * 1.6 * 0.4	● Red	1.60	2.40	624	71.5	20
		● Green	2.70	3.90	525	360.0	
		● Blue	2.70	3.90	470	71.5	

B3213 Series

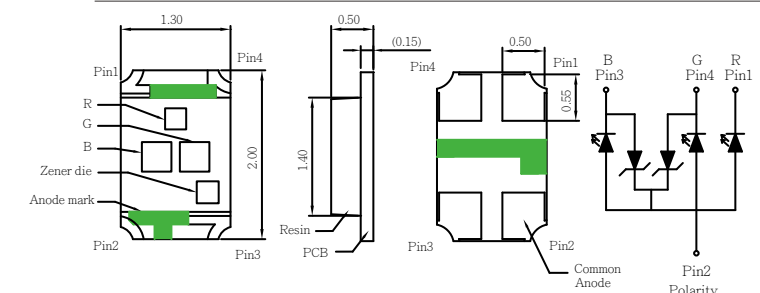
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3213GBR	2.7 * 1.35 * 0.8	● Red	1.60	2.40	624	36.0	5
		● Green	2.50	3.20	529	127.0	
		● Blue	2.50	3.20	472	36.0	

E3743 Series

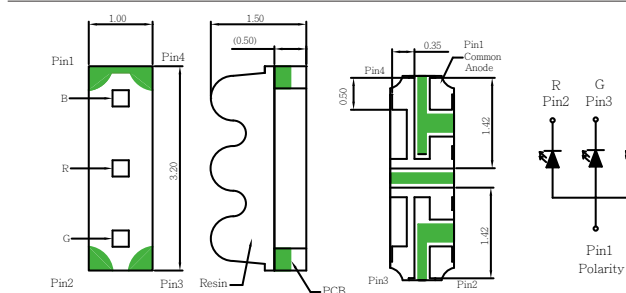
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
E3743FCH	2.0 * 1.3 * 0.5	● Red	1.60	2.40	624	112.5	20
		● Green	2.70	3.90	525	285.0	
		● Blue	2.70	3.90	470	71.5	

B31G3 Series

Outline Dimensions

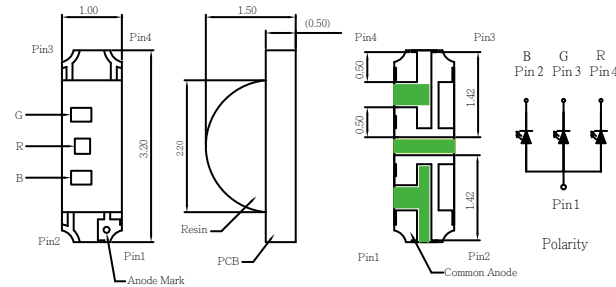


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B31G3BGR	3.2 * 1.5 * 1.0	● Red	1.80	2.40	620	950.0	20
		● Green	2.60	3.40	526	1500.0	
		● Blue	2.60	3.40	468	330.0	

B3173 Series



Outline Dimensions

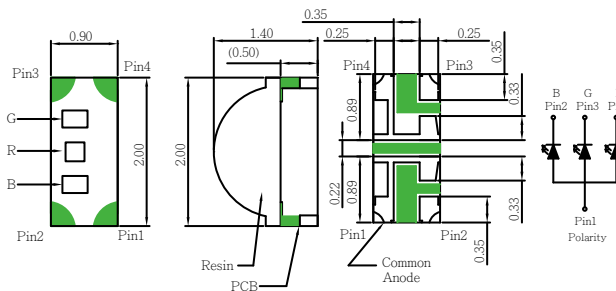


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3173BGR	3.2 * 1.5 * 1.0	Red	1.80	2.40	622	450.0	20
		Green	2.60	3.40	523	850.0	
		Blue	2.60	3.40	465	140.0	

B37B3 Series



Outline Dimensions



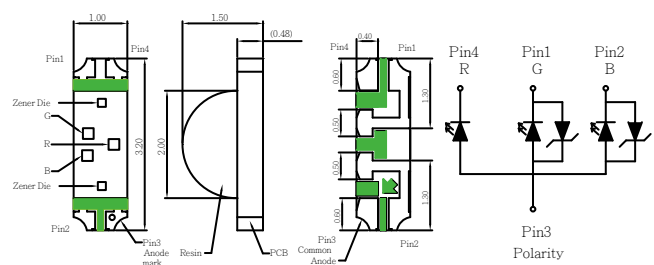
Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B37B3BGR	2.0 * 1.4 * 0.9	Red	2.00	2.40	620	100.0	10
		Green	2.90	3.40	523	290.0	
		Blue	2.90	3.40	467	55.0	

PCB / RGB Mixed White

E3113 Series



Outline Dimensions

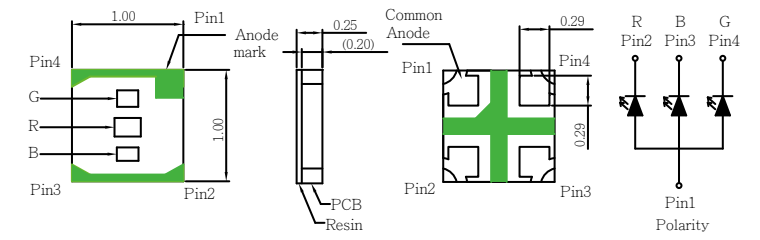


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
E3113BGR	3.2 * 1.5 * 1.0	OWhite	1.70	3.45	x=0.220 y=0.260	300.0	10

B3C73 Series

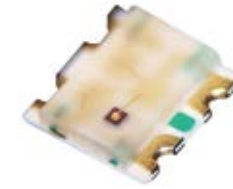


Outline Dimensions

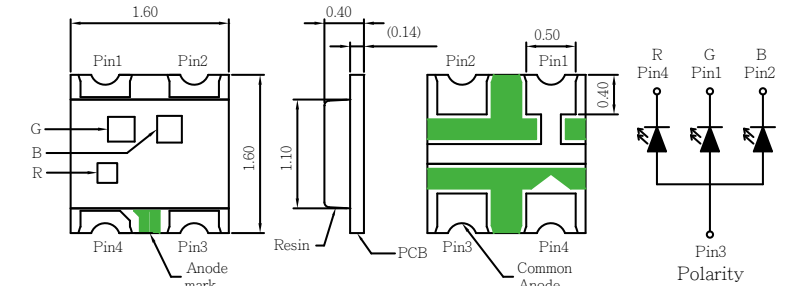


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3C73RBG	1.0 * 1.0 * 0.25	OWhite	1.60	3.40	x=0.270 y=0.315	95.0	R:0.9 G:2.0 B:0.65

B38G3 Series



Outline Dimensions

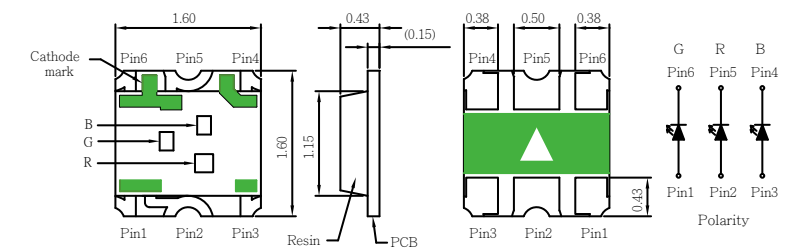


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B38G3RGB	1.6 * 1.6 * 0.4	OWhite	1.70	3.45	x=0.220 y=0.250	560.0	10

B3813 Series



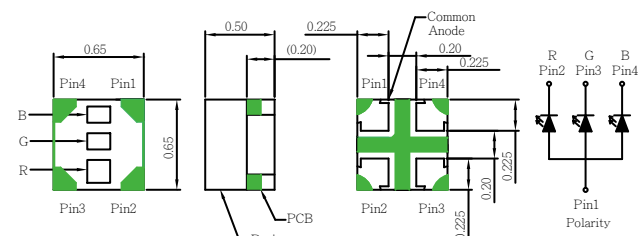
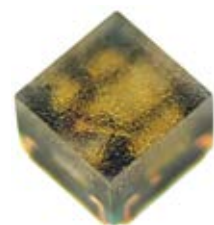
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3813BRG	1.6 * 1.6 * 0.43	OWhite	1.60	4.00	x=0.307 y=0.340	180.0	R:4.8 G:3.1 B:2.0

B36J3 Series

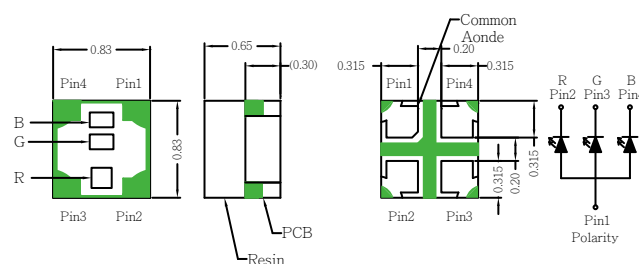
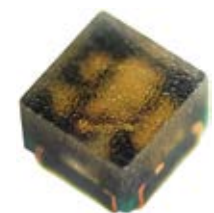
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B36J3RGB	0.65 * 0.65 * 0.5	● Red	1.60	2.40	621	32.0	5
		● Green	2.10	3.10	530	46.0	2
		● Blue	2.10	3.10	470	8.0	2

B39P3 Series

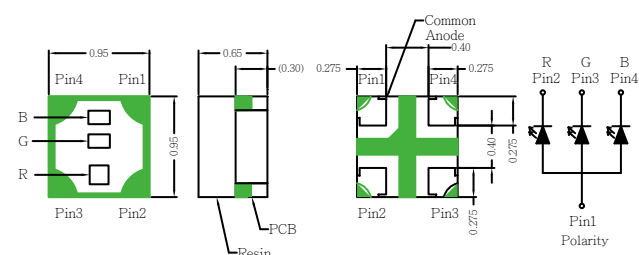
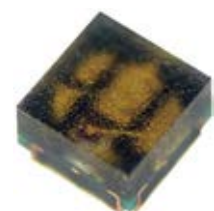
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B39P3RGB	0.83 * 0.83 * 0.65	● Red	1.60	2.40	621	26.0	5
		● Green	2.10	3.10	531	37.0	2
		● Blue	2.10	3.10	470	7.5	2

B3SD3 Series

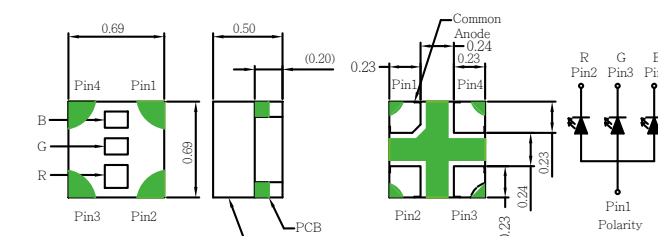
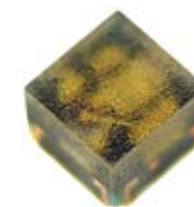
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3SD3RGB	0.95 * 0.95 * 0.65	● Red	1.60	2.40	621	28.0	5
		● Green	2.10	3.10	531	37.0	2
		● Blue	2.10	3.10	470	7.0	2

B36H3 Series

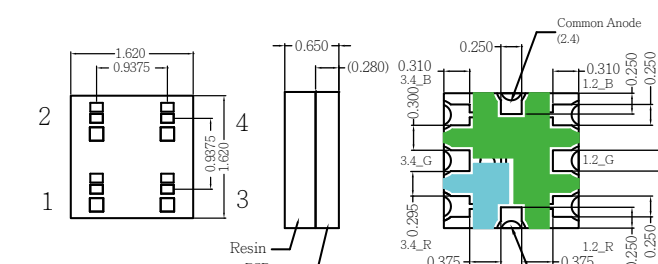
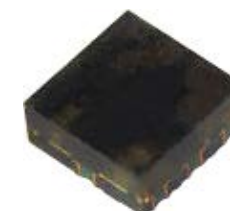
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B36H3RGB	0.69 * 0.69 * 0.5	● Red	1.60	2.40	621	32.0	5
		● Green	2.10	3.10	530	46.0	2
		● Blue	2.10	3.10	470	8.0	2

B339B Series

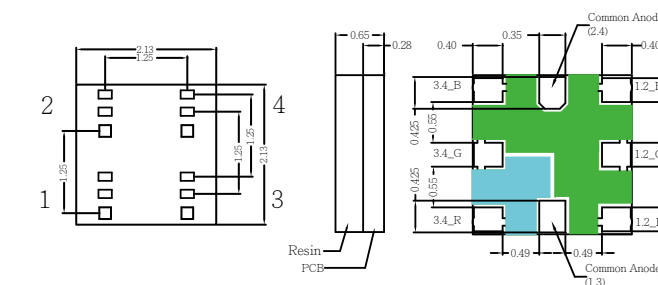
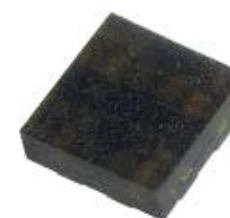
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B339BFCH	1.62 * 1.62 * 0.65	● Red	1.60	2.40	621	18.0	5
		● Green	2.20	3.00	532	21.0	2
		● Blue	2.20	3.00	469	3.5	2

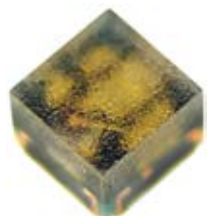
B33FB Series

Outline Dimensions

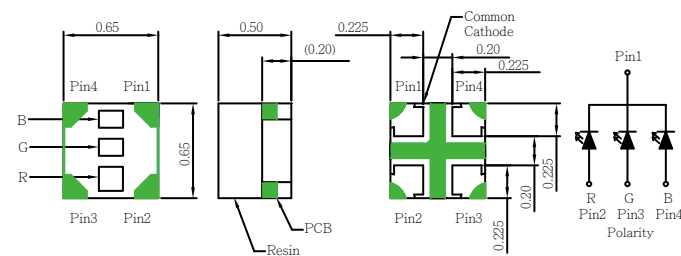


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B33FBFCH	2.13 * 2.13 * 0.65	● Red	1.60	2.40	621	17.0	5
		● Green	2.20	3.00	531	20.0	2
		● Blue	2.20	3.00	468	3.4	2

B36L3 Series

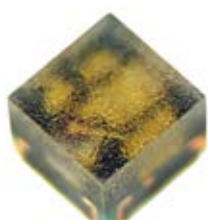


Outline Dimensions

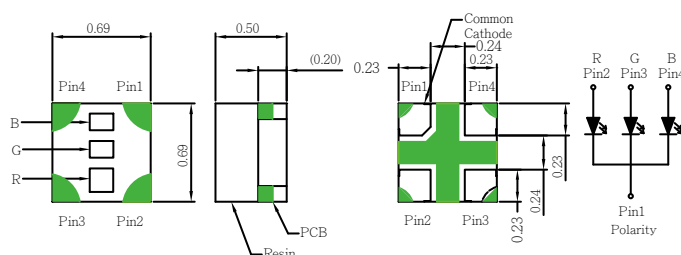


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B36L3RGB	0.65 * 0.65 * 0.5	● Red	1.60	2.40	621	32.0	5
		● Green	2.10	3.10	530	46.0	2
		● Blue	2.10	3.10	470	8.0	2

B36S3 Series

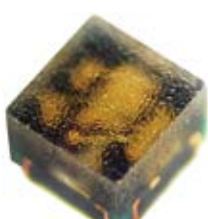


Outline Dimensions

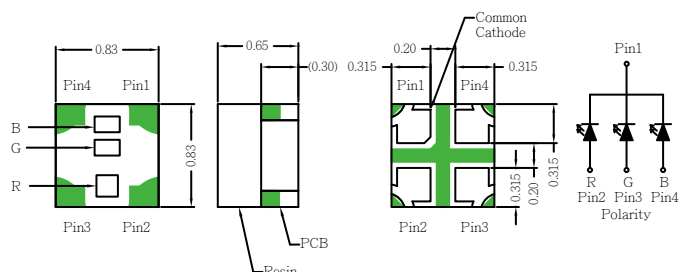


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B36S3RGB	0.69 * 0.69 * 0.5	● Red	1.60	2.40	621	32.0	5
		● Green	2.10	3.10	530	46.0	2
		● Blue	2.10	3.10	470	8.0	2

B39D3 Series

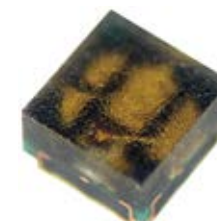


Outline Dimensions

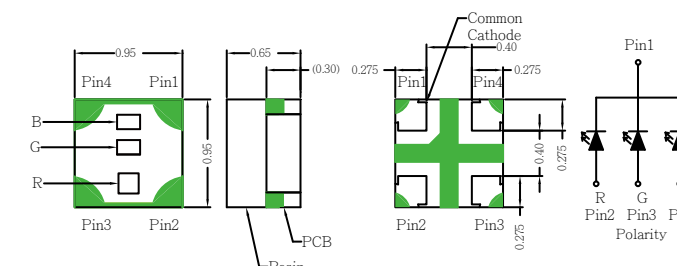


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B39D3RGB	0.8 * 0.8 * 0.65	● Red	1.60	2.40	621	26.0	5
		● Green	2.10	3.10	531	37.0	2
		● Blue	2.10	3.10	470	7.5	2

B3SK3 Series

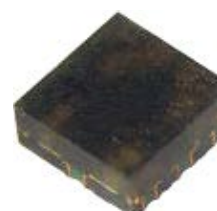


Outline Dimensions

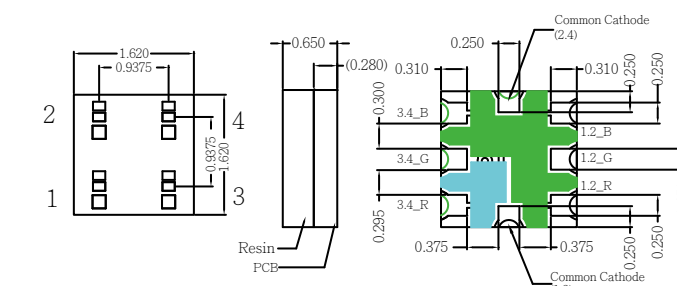


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3SK3RGB	0.95 * 0.95 * 0.65	● Red	1.60	2.40	621	28.0	5
		● Green	2.10	3.10	531	37.0	2
		● Blue	2.10	3.10	470	7.0	2

B33NB Series

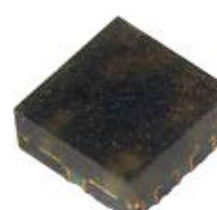


Outline Dimensions

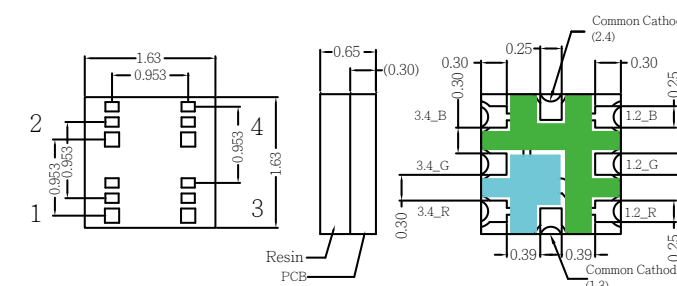


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B33NBFC	1.62 * 1.62 * 0.65	● Red	1.60	2.40	621	18.0	5
		● Green	2.20	3.00	532	21.0	2
		● Blue	2.20	3.00	469	3.5	2

B33HB Series

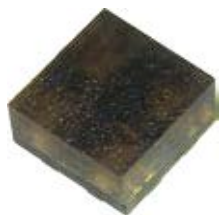


Outline Dimensions

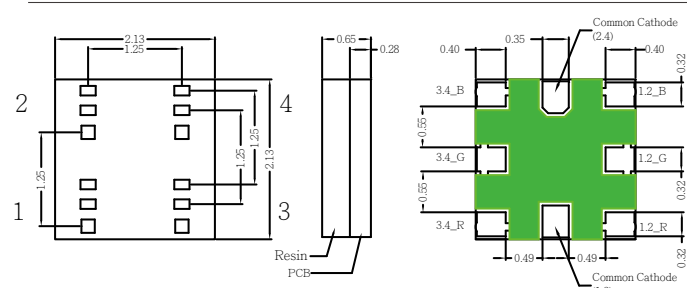


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B33HBFC	1.63 * 1.63 * 0.65	● Red	1.60	2.40	621	18.0	5
		● Green	2.20	3.00	532	21.0	2
		● Blue	2.20	3.00	469	3.5	2

B33QB Series

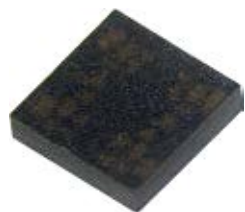


Outline Dimensions

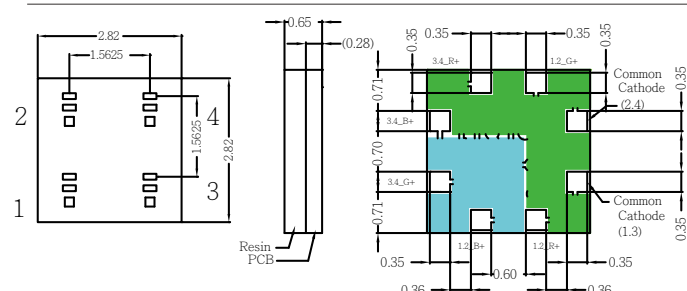


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B33QBFCH	2.13 * 2.13 * 0.65	● Red	1.60	2.40	621	17.0	5
		● Green	2.20	3.00	531	20.0	
		● Blue	2.20	3.00	468	3.4	

B3FYB Series

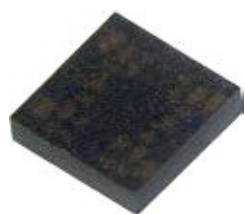


Outline Dimensions

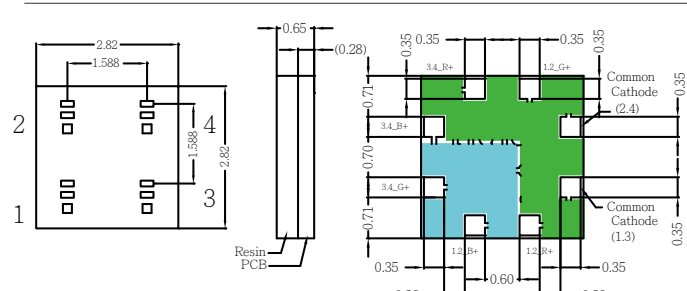


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B3FYBFCH	2.82 * 2.82 * 0.65	● Red	1.60	2.40	621	18.0	5
		● Green	2.20	3.00	531	22.0	
		● Blue	2.20	3.00	467	3.3	

B33YB Series

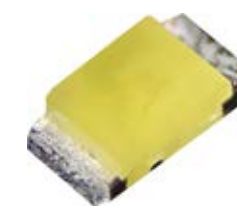


Outline Dimensions

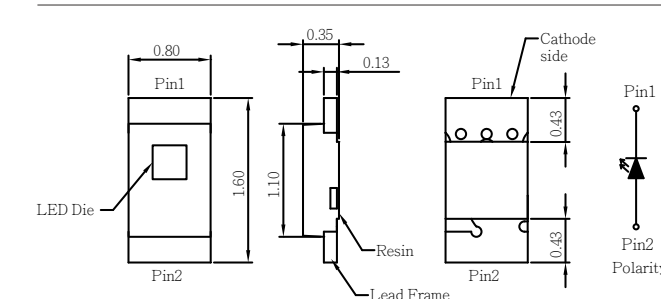


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Min.	Max.		Typ.	
B33YBFCH	2.82 * 2.82 * 0.65	● Red	1.60	2.40	621	18.0	5
		● Green	2.20	3.00	531	22.0	
		● Blue	2.20	3.00	467	3.3	

F1961 Series



Outline Dimensions

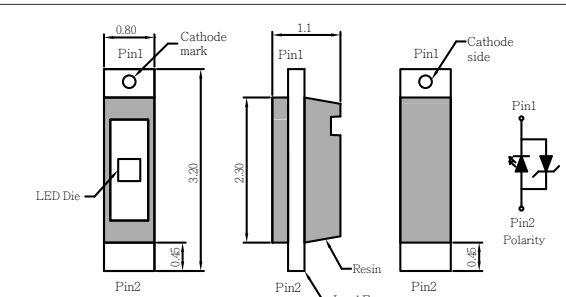


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
F1961UYG	1.6 * 0.8 * 0.35	● Yellow Green	2.1	571	71.5	20
F1961TX		○ White	3.2	x=0.290 y=0.285	800.0	
F1961TX		○ White	2.9	x=0.290 y=0.285	226.0	5

V1181 Series

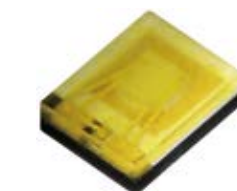


Outline Dimensions

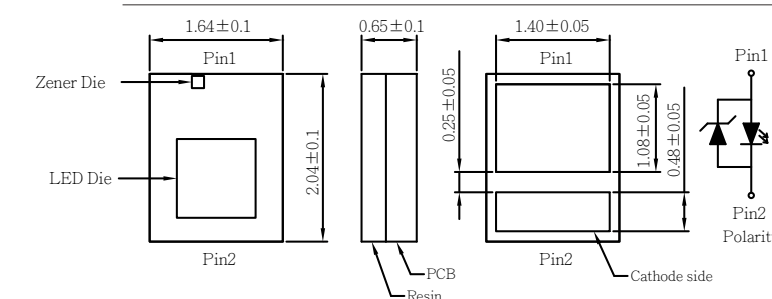


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)/ CIE (x, y)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
V1181NB	3.2 * 1.1 * 0.8	● Blue	3.3	470	180.0	20
V1181TX		○ White	3.2	x=0.290 y=0.285	1125.0	

E17C1 Series



Outline Dimensions

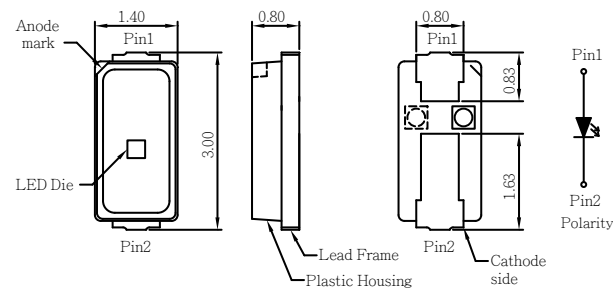


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	CCT (K)	Luminous Intensity (mcd)	Peak Pulse I _{FP} (mA)
			Typ.		Typ.	
E17C1MN	2.04 * 1.64 * 0.65	○ Pure White	3.40	5500	270.0	500

T1361 Series



Outline Dimensions

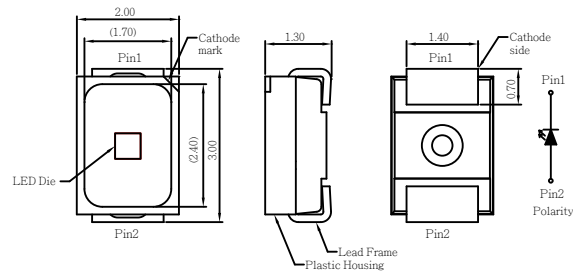


Part Number	Size (mm) L * W * H	Emitting Color	CRI	Forward Voltage (V _F)	CCT (K)	Luminous Flux (lm)	I _F (mA)
				Typ.		Typ.	
T1361MND	3.0 * 1.4 * 0.8	OCold White	> 80	3.20	6000	8.3	20
		ONeutral White	> 80	3.20	4000	8.3	
		OWarm White	> 80	3.20	3000	8.0	

T1591 Series

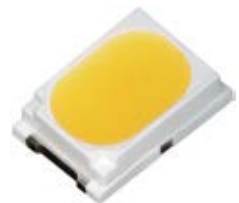


Outline Dimensions

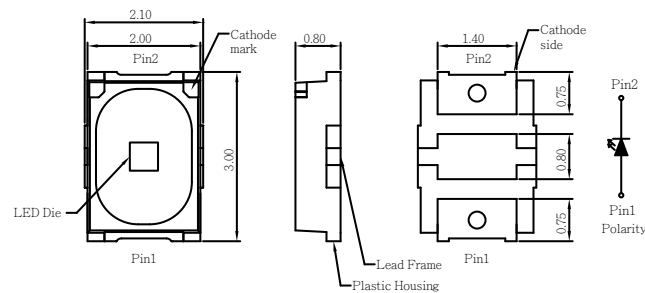


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
T1591NB	3.0 * 2.0 * 1.3	Blue	3.3	468	200.0	20
T1591NG		Green	3.2	525	2150.0	
T1591USD		Red	2.1	630	1000.0	
T1591UY		Yellow	2.1	594	300.0	
T1591UYG		Yellow Green	2.1	574	170.0	

T1571 Series



Outline Dimensions

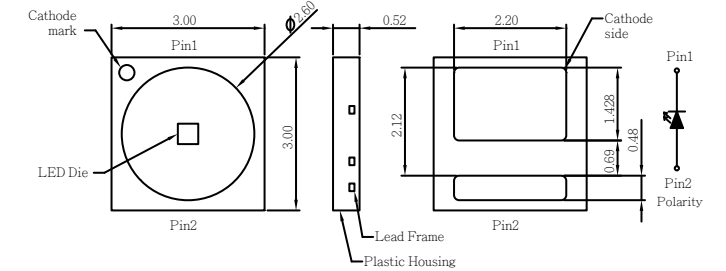


Part Number	Size (mm) L * W * H	Emitting Color	CRI	Forward Voltage (V _F)	CCT (K)	Luminous Flux (lm)	I _F (mA)
				Typ.		Typ.	
T1571MND	3.0 * 2.1 * 0.8	OCold White	> 80	3.20	6000	20.1	60
		ONeutral White	> 80	3.20	4000	20.1	
		OWarm White	> 80	3.20	3000	19.5	

T3231 Series



Outline Dimensions

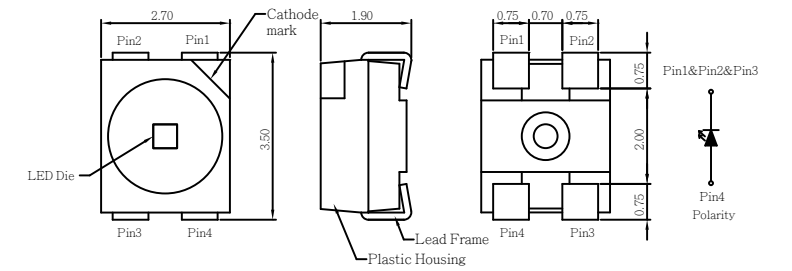


Part Number	Size (mm) L * W * H	Emitting Color	CRI	Forward Voltage (V _F)	CCT (K)	Luminous Flux (lm)	I _F (mA)
				Typ.		Typ.	
T3231JWD	3.0 * 3.0 * 0.52	OCold White	> 80	3.20	6000	145.0	350
		ONeutral White	> 80	3.20	4000	145.0	
		OWarm White	> 80	3.20	3000	139.0	

T1681 Series



Outline Dimensions

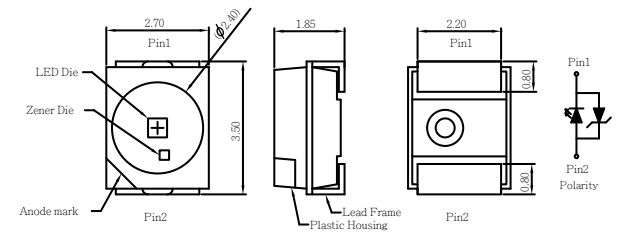


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
T1681NB	3.5 * 2.7 * 1.9	Blue	3.1	464	300.0	20
T1681NG		Green	3.2	525	1500.0	
T1681UD		Orange	2.1	611	1000.0	
T1681USD		Red	2.1	630	1000.0	
T1681UY		Yellow	2.1	594	1000.0	
T1681UYG		Yellow Green	2.1	574	170.0	

U1711 Series



Outline Dimensions

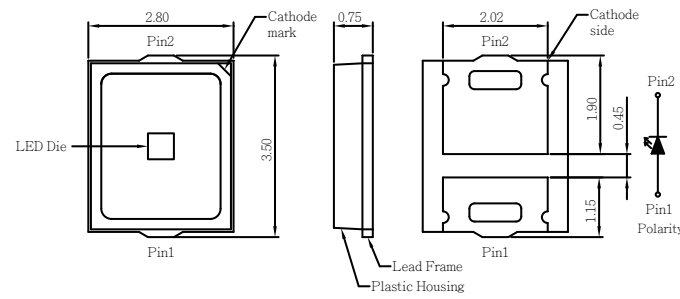


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
U1711NB*	3.5 * 2.7 * 1.85	Blue	2.9	458	350.0	20
U1711USD*		Red	2.1	630	580.0	
U1711UY*		Yellow	2.1	590	1150.0	

T1651 Series



Outline Dimensions

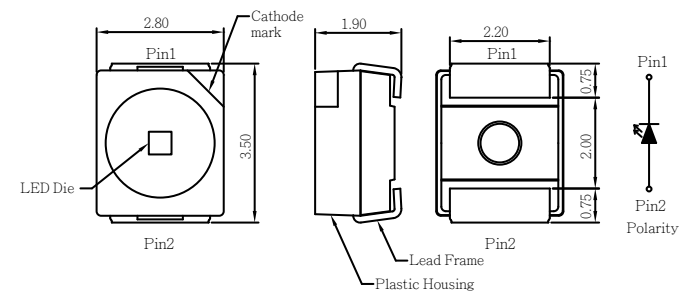


Part Number	Size (mm) L * W * H	Emitting Color	CRI	Forward Voltage (V _F)	CCT (K)	Luminous Flux (lm)	I _F (mA)
				Typ.		Typ.	
T1651JXD	3.5 * 2.8 * 0.75	OCold White	> 80	3.10	6000	27.0	60
		ONeutral White	> 80	3.10	4000	27.0	
		OWarm White	> 80	3.10	3000	25.0	
T1651JXD	3.5 * 2.8 * 0.75	OCold White	> 80	3.20	6000	57.5	150
		ONeutral White	> 80	3.20	4000	57.5	
		OWarm White	> 80	3.20	3000	57.0	

T1691 Series



Outline Dimensions



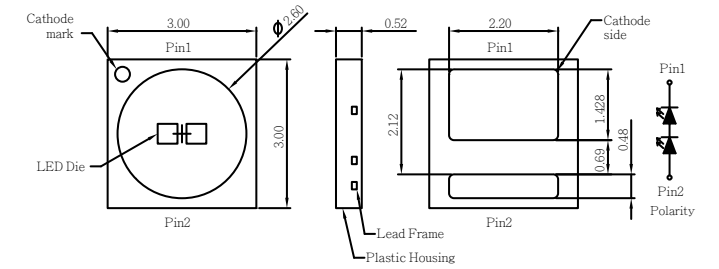
Part Number	Size (mm) L * W * H	Emitting Color	CRI	Forward Voltage (V _F)	CCT (K)	Luminous Intensity (mcd)	I _F (mA)
				Typ.		Typ.	
T1691TX	3.5 * 2.8 * 1.9	OCold White	-	3.20	6000	2385.0	20
		ONeutral White	-	3.20	4000	2385.0	

Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
T1691NB	3.5 * 2.8 * 1.9	Blue	3.1	464	300.0	20
T1691NG		Green	3.2	525	1500.0	
T1691UD		Orange	2.1	611	1000.0	
T1691USD		Red	2.1	630	1000.0	
T1691UY		Yellow	2.1	594	1000.0	
T1691UYG		Yellow Green	2.1	574	170.0	

T3232 Series



Outline Dimensions

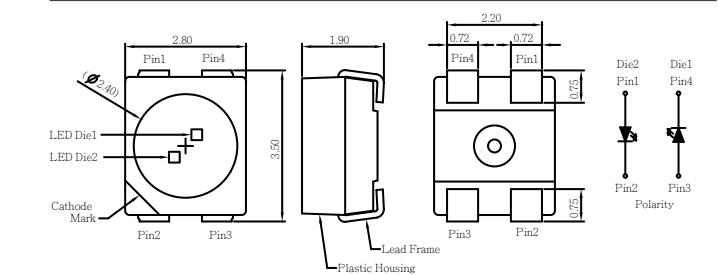


Part Number	Size (mm) L * W * H	Emitting Color	CRI	Forward Voltage (V _F)	CCT (K)	Luminous Flux (lm)	I _F (mA)
				Typ.		Typ.	
T3232JWD	3.0 * 3.0 * 0.52	OCold White	> 80	6.00	6000	117.0	120
		ONeutral White	> 80	6.00	4000	117.0	
		OWarm White	> 80	6.00	3000	117.0	

T2682 Series



Outline Dimensions

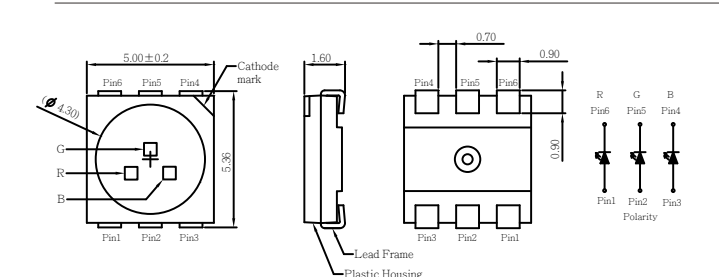


Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
T2682 Series	3.5 * 2.8 * 1.9	Blue	3.20	467	200.0	20
		Green	3.10	517	1300.0	
		Orange	2.10	611	1000.0	
		Red	2.10	630	1000.0	
		Yellow	2.10	594	1000.0	
		Yellow Green	2.00	571	100.0	

T3A83 Series



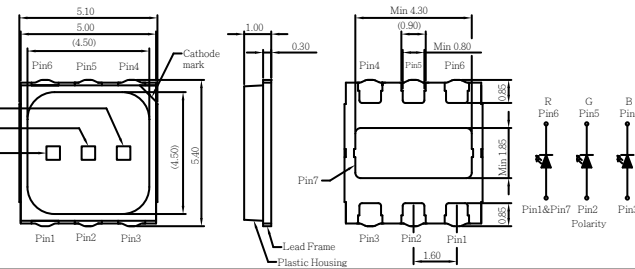
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)	λ _D (nm)	Luminous Intensity (mcd)	I _F (mA)
			Typ.		Typ.	
T3A83RGB	5.36 * 5.0 * 1.6	Red	2.10	624	700.0	20
		Green	3.10	525	1440.0	
		Blue	3.10	467	285.0	

T3A73 Series

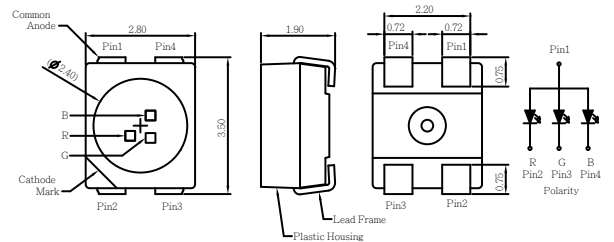
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Flux (lm)		I _F (mA)
			Typ.			Typ.		
T3A73BGR	5.4 * 5.1 * 1.0	● Red	2.10		624	23.0		150
		● Green	3.10		525	25.0		
		● Blue	3.10		467	9.0		

T3683 Series

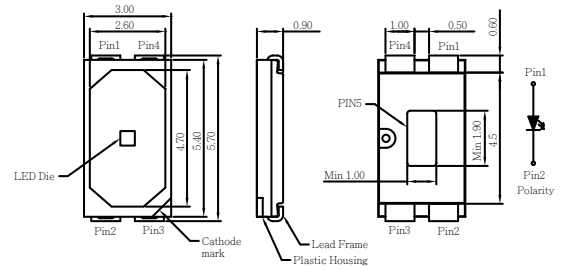
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)		I _F (mA)
			Typ.			Typ.		
T3683 Series	3.5 * 2.8 * 1.9	● Red	2.10		630	1000.0		20
		● Orange	2.10		611	1000.0		
		● Yellow	2.10		594	1000.0		
		● Yellow Green	2.10		574	170.0		
		● Green	3.10		517	1300.0		
		● Blue	3.10		464	300.0		

T5301 Series

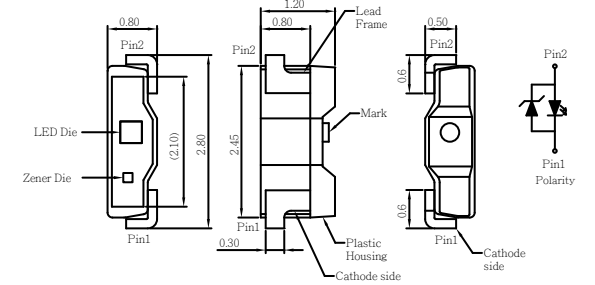
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	CRI	Forward Voltage (V _F)		CCT (K)	Luminous Flux (lm)		I _F (mA)
				Typ.			Typ.		
T5301MND	5.7 * 3.0 * 0.9	○ Cold White	> 80	3.20		6000	34.0		100
T5301MND		○ Warm White	> 80	3.20		3000	32.5		
Part Number	Size (mm) L * W * H	Emitting Color		Forward Voltage (V _F)		λ _D (nm)	Luminous Flux (lm)		I _F (mA)
				Typ.			Typ.		
T5301NG	5.7 * 3.0 * 0.9	● Green		3.3		525	35.0		150
T5301USD		● Red		2.1		630	23.0		

V1081 Series

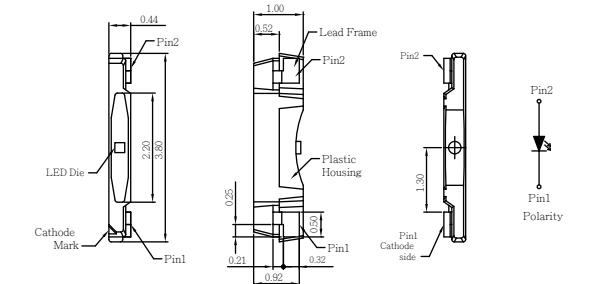
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Typ.			Typ.		
V1081TX	2.8 * 1.2 * 0.8	○ White	3.20		x=0.285 y=0.270	2125.0		20

F1041 Series

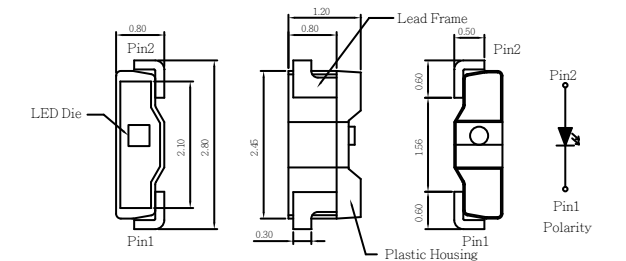
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm) CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Typ.			Typ.		
F1041USD	3.8 * 1.0 * 0.44	● Red	2.00		632	130.0		20
F1041UD		● Orange	2.00		611	200.0		
F1041UY		● Yellow	2.00		591	285.0		
F1041NG		● Green	3.10		517	1400.0		
F1041NB		● Blue	3.10		462	285.0		
F1041SP		○ White	3.20		x=0.287 y=0.265	1900.0		

F1081 Series

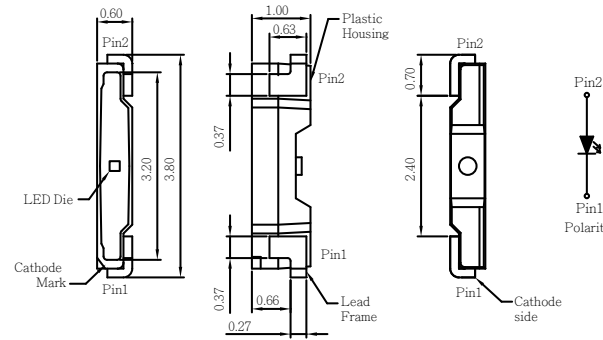
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm) CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Typ.			Typ.		
F1081NG	2.8 * 1.2 * 0.8	● Green	3.10		517	1300.0		20
F1081NB		● Blue	3.10		464	400.0		

F1071 Series

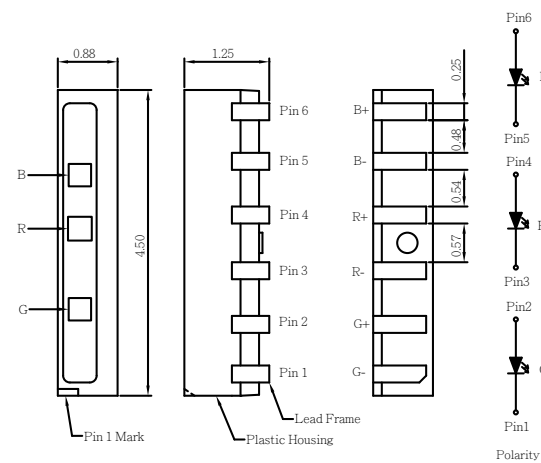
Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm) CIE (x, y)	Luminous Intensity (mcd)		I _F (mA)
			Typ.	Max.		Typ.	Max.	
F1071USD	3.8 * 1.0 * 0.6	Red	2.10		630	1000.0		20
F1071UD		Orange	2.10		611	350.0		
F1071UY		Yellow	2.10		594	230.0		
F1071UYG		Yellow Green	2.10		574	170.0		
F1071NG		Green	3.10		517	1300.0		
F1071NB		Blue	3.10		464	400.0		
F1071SE		White	3.20		x=0.285 y=0.265	2685.0		

F3NC3 Series

Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)		I _F (mA)
			Typ.	Max.		Typ.	Max.	
F3NC3GRB	4.5 * 1.25 * 0.88	Red	2.00		624	500.0		20
		Green	3.30		525	1200.0		
		Blue	3.30		470	300.0		

HV-7W60TR-5394



Part Number	Size (mm)	Emitting Color	Forward Voltage (V _F)		CIE (x, y)	Luminous Intensity (mcd)		Viewing Angle (2θ _{1/2})	I _F (mA)
			Typ.	Max.		Min.	Typ.		
HV-7W60TR-5394	3.0 Round LAMP	White	3.20	3.60	x=0.310 y=0.300	700.0	1700.0	60	20

HV-7Y36WCXL



Part Number	Size (mm)	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)		Viewing Angle (2θ _{1/2})	I _F (mA)
			Typ.	Max.		Min.	Typ.		
HV-7Y36WCXL	3.0 Round LAMP	Yellow	2.10	2.60	590	20.0	50.0	36	20

HV-8W15WTXCB



Part Number	Size (mm)	Emitting Color	Forward Voltage (V _F)		CIE (x, y)	Luminous Intensity (mcd)		Viewing Angle (2θ _{1/2})	I _F (mA)
			Typ.	Max.		Min.	Typ.		
HV-8W15WTXCB	5.0 Round LAMP	White	3.20	3.60	x=0.310 y=0.320	24000.0	40000.0	15	20

HV-8NG15WCXL



Part Number	Size (mm)	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)		Viewing Angle (2θ _{1/2})	I _F (mA)
			Typ.	Max.		Typ.	Min.		
HV-8NG15WCXL	5.0 Round LAMP	●Green	3.20	4.00	520	8500.0	25000.0	15	20

HV-8B50-3778



Part Number	Size (mm)	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)		Viewing Angle (2θ _{1/2})	I _F (mA)
			Typ.	Max.		Typ.	Min.		
HV-8B50-3778	5.0 Round LAMP	●Blue	3.00	3.60	468	680.0	800.0	50	20

HOVL-5Y40PAR-5825



Part Number	Size (mm)	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)		Viewing Angle (2θ _{1/2})	I _F (mA)
			Typ.	Max.		Typ.	Min.		
HOVL-5Y40PAR-5825	5.0 Oval LAMP	●Yellow	2.10	2.60	593	2300.0	3000.0	35/70	20

HV-I7YG55L-MP9A



Part Number	Size (mm)	Emitting Color	Forward Voltage (V _F)		λ _D (nm)	Luminous Intensity (mcd)		Viewing Angle (2θ _{1/2})	I _F (mA)
			Typ.	Max.		Typ.	Min.		
HV-I7YG55L-MP9A	2.9 Round LAMP+Holder	●Green	2.10	2.60	572	11.0	25.0	55	20

HCD89390



Part Number	Segment Height mm (inch)	Emitting Color	CA / CC	λ _D (nm)/ CIE (x,y)	Resin Color	Face Color	Luminous Intensity (mcd)	
							Min.	Typ.
HCD89390	7(0.28)	●Red	CA	624	White	Gray	8.0	15.0

HCD89075



Part Number	Segment Height mm (inch)	Emitting Color	CA / CC	λ _D (nm)/ CIE (x,y)	Resin Color	Face Color	Luminous Intensity (mcd)	
							Min.	Typ.
HCD89075	7.62(0.3)	●Green	CA	569	White	Gray	1.3	2.1

HCD89330



Part Number	Segment Height mm (inch)	Emitting Color	CA / CC	λ_D (nm)/ CIE (x,y)	Resin Color	Face Color	Luminous Intensity (mcd)	
							Min.	Typ.
HCD89330	9.2(0.36)	White	CA	x=0.270 y=0.260	White	Black	10.0	16.0

HCD89428



Part Number	Segment Height mm (inch)	Emitting Color	CA / CC	λ_D (nm)/ CIE (x,y)	Resin Color	Face Color	Luminous Intensity (mcd)	
							Min.	Typ.
HCD89428	10(0.39)	White	CA	x=0.285 y=0.275	White	Black	21.7	43.7

HCD89396



Part Number	Segment Height mm (inch)	Emitting Color	CA / CC	λ_D (nm)/ CIE (x,y)	Resin Color	Face Color	Luminous Intensity (mcd)	
							Min.	Typ.
HCD89396	13.2(0.52)	Red	CC	622	White	Black	13.7	21.7
		Green		530			34.0	70.0
		Blue		470			13.7	21.7

HCD89430



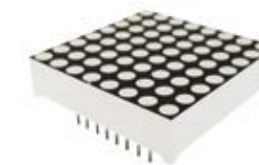
Part Number	Size (mm) L * W	Emitting Color	CA / CC	λ_D (nm)/ CIE (x,y)	Resin Color	Face Color	Luminous Intensity (mcd)	
							Min.	Typ.
HCD89430	12.7 * 17.8	Red	CC	639	White	Black	8.6	13.7

HCD89429



Part Number	Size (mm) L * W	Emitting Color	CA / CC	λ_D (nm)/ CIE (x,y)	Resin Color	Face Color	Luminous Intensity (mcd)	
							Min.	Typ.
HCD89429	25.5 * 10.1	Blue	CC	470	White	Black	13.7	21.7

HCD89203

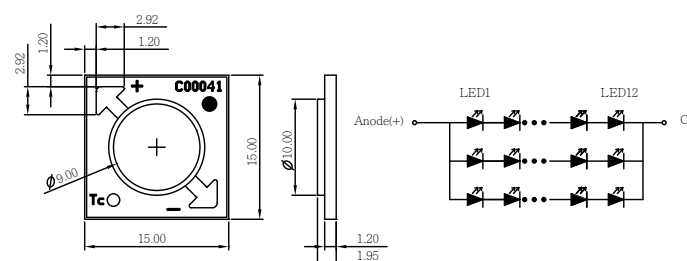


Part Number	Size (mm) L * W	Emitting Color	CA / CC	λ_D (nm)/ CIE (x,y)	Resin Color	Face Color	Luminous Intensity (mcd)	
							Min.	Typ.
HCD89203	31.8 * 31.8	White	CC	x=0.285 y=0.275	White	Black	34.0	60.0

CT91 Series

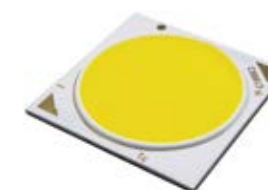


Outline Dimensions

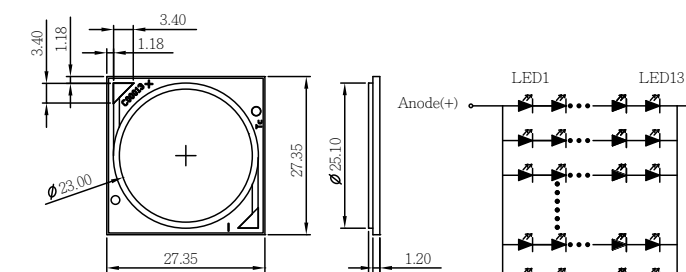


Part Number	Size (mm) L * W * H	Emitting Color	CRI	Forward Voltage (V _F)			CCT (K)	Luminous Flux (lm)	I _F (mA)
				Min.	Typ.	Max.		Typ.	
CT91CCMD	15 * 15 * 1.95	OCold White	> 80	32.00	36.00	40.00	5000	1250.0	260
CT91NCMD		ONeutral White	> 80				4000	1210.0	
CT91WCMD		OWarm White	> 80				3000	1160.0	
CT91CTAJ		OCold White	> 90				5000	962.0	
CT91WTAJ		OWarm White	> 90				3000	915.0	
CT91WCNC		OWarm White	> 70				2200	1055.0	

CT90 Series



Outline Dimensions

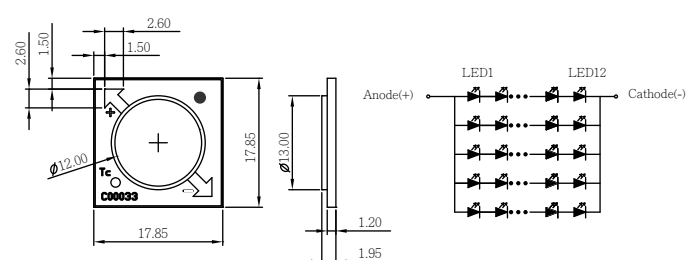


Part Number	Size (mm) L * W * H	Emitting Color	CRI	Forward Voltage (V _F)			CCT (K)	Luminous Flux (lm)	I _F (mA)
				Min.	Typ.	Max.		Typ.	
CT90CCMD	27.35 * 27.35 * 1.95	OCold White	> 80	37.00	39.00	43.00	5000	7900.0	1400
CT90NCMD		ONeutral White	> 80				4000	7600.0	
CT90WCMD		OWarm White	> 80				3000	7400.0	
CT90CTAJ		OCold White	> 90				5000	6750.0	
CT90WTAJ		OWarm White	> 90				3000	5420.0	
CT90WCNC		OWarm White	> 70				2200	7080.0	

CTP5 Series



Outline Dimensions



Part Number	Size (mm) L * W * H	Emitting Color	CRI	Forward Voltage (V _F)			CCT (K)	Luminous Flux (lm)	I _F (mA)
				Min.	Typ.	Max.		Typ.	
CTP5CCMD	17.85 * 17.85 * 1.95	OCold White	> 80	34.00	36.00	40.00	5000	2700.0	550
CTP5NCMD		ONeutral White	> 80				4000	2650.0	
CTP5WCMD		OWarm White	> 80				3000	2550.0	

MX01 Series

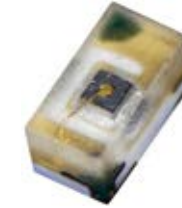


Part Number	Size (mm) W * H	Emitting Color	LED Pitch	Forward Voltage (V _F)		Packaging
				Min.	Max.	
MX01USD	10 * 3	Red	2cm or 4cm	4.50	5.00	5000cm/reel
MX01MN		Magenta				
MX01BSN		Rose Gold				
MX01UY		Amber				
MX01NG		Green				
MX01HWS		Turquoise				
MX01NB		Blue				
MX01TX		OWhite(IP)				
MX01BS		OWhite(No IP)				

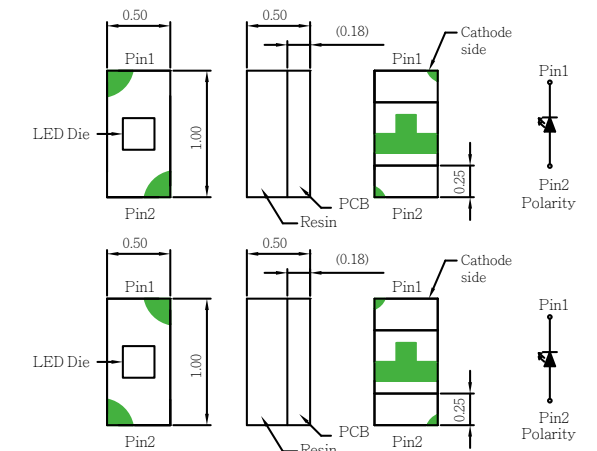
HARVATEK INFRARED LED

INFRARED LED Emitter / Top View

B2851 Series



Outline Dimensions

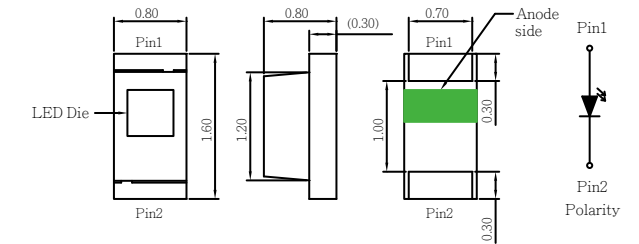


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B2851IR	1.0 * 0.5 * 0.5	940	1.7	4.5	140	70
B2851IRP	1.0 * 0.5 * 0.5	850	1.55	5.5	140	70

B13H1 Series



Outline Dimensions

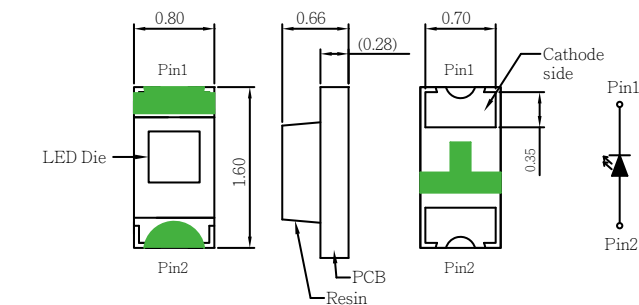


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	$2\theta_{1/2}$	
B13H1IR	1.6 * 0.8 * 0.88	940	1.45	10.7	140	100

B13V1 Series

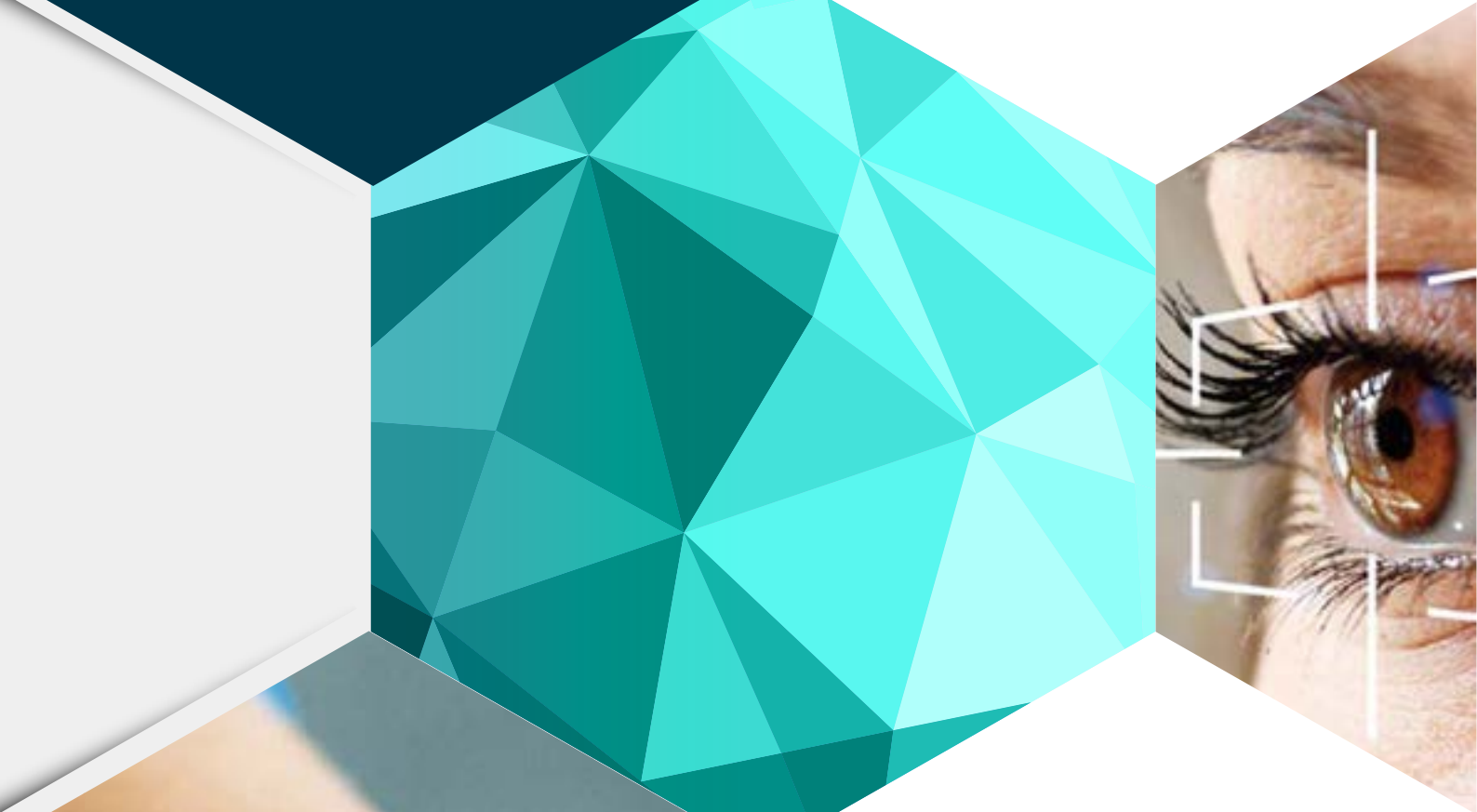


Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B13V1IR	1.6 * 0.8 * 0.66	940	1.2	0.8	140	20

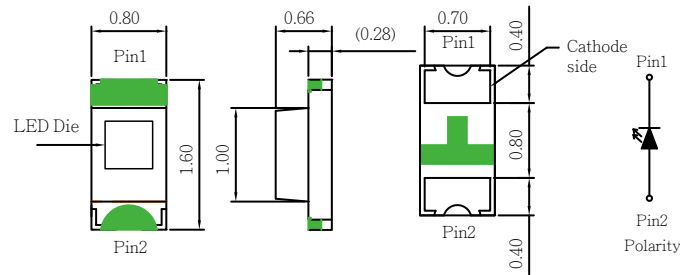
PD IR APPLICATION



B13W1 Series



Outline Dimensions

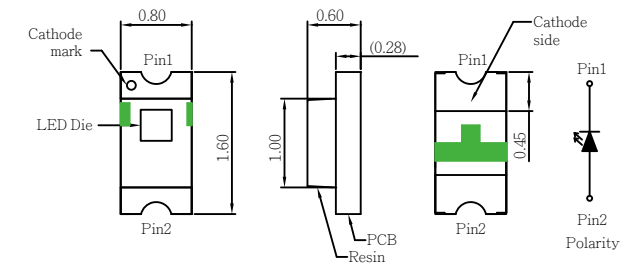


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B13W1IRP	1.6 * 0.8 * 0.66	850	1.4	2	140	20

B1911 Series



Outline Dimensions

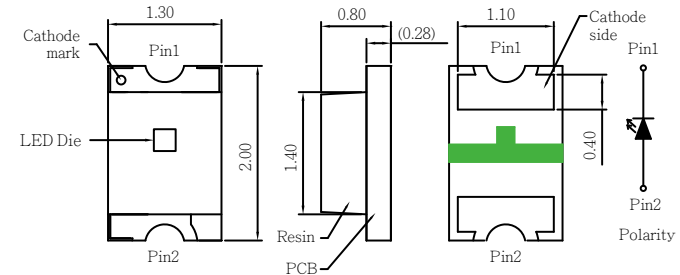


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle (2 $\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B1911IR	1.6 * 0.8 * 0.66	940	1.6	3	140	100

B1701 Series



Outline Dimensions

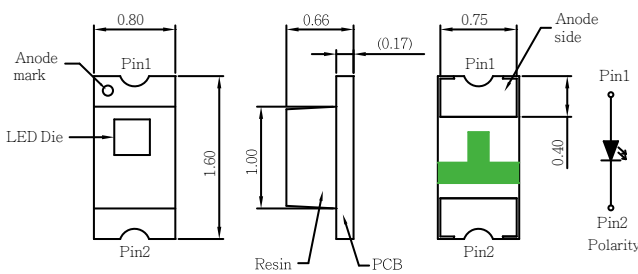


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle (2 $\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B1701IR	2.0 * 1.3 * 0.8	940	1.3	0.85	140	20
B1701IRP	2.0 * 1.3 * 0.8	850	1.45	1.3	140	20

B19A1 Series



Outline Dimensions

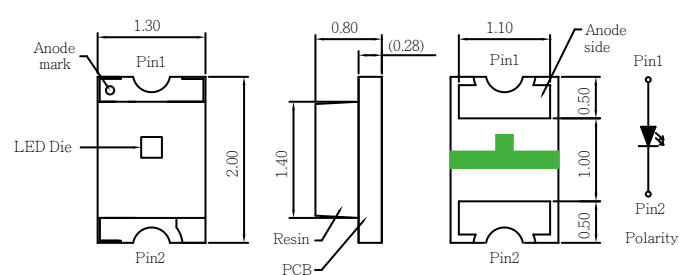


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle (2 $\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B19A1IR	1.6 * 0.8 * 0.66	940	1.3	2	140	20
B19A1IRP	1.6 * 0.8 * 0.66	850	1.4	2	140	20

B17M1 Series



Outline Dimensions

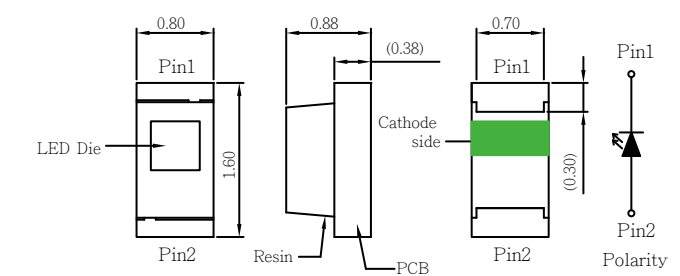


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B17M1IRP	2.0 * 1.3 * 0.8	850	1.55	10	140	100

B19H1 Series



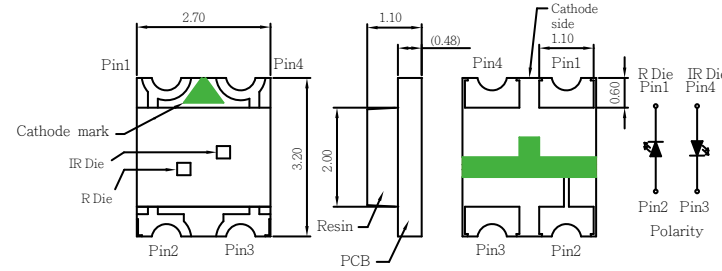
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B19H1IR	1.6 * 0.8 * 0.88	940	1.2	0.8	140	20

B15H2 Series

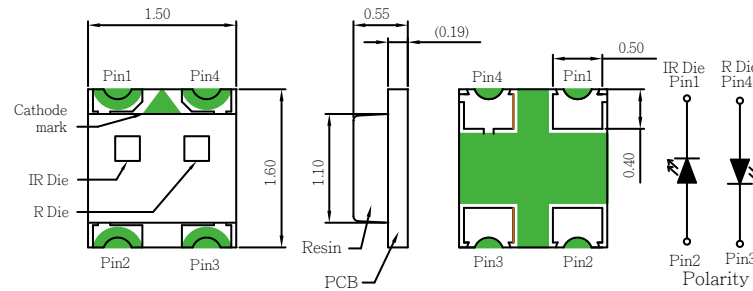
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B15H2HRRC	3.2 * 2.7 * 1.1	R:662 IR:900	R:1.95 IR:1.39	R:1.2 IR:1.7	140	20

B26H2 Series

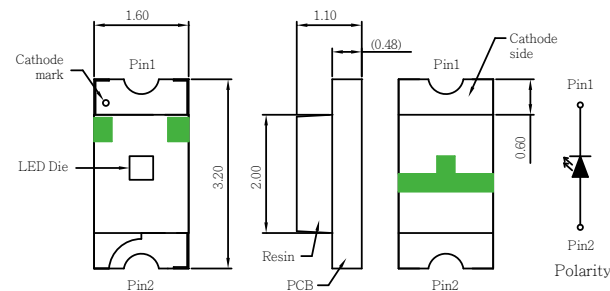
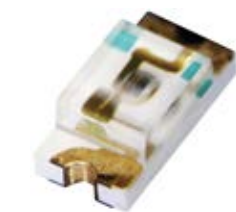
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B26H2HRRC	1.6 * 1.5 * 0.55	R:650-665 IR:870-910	R:2.2 IR:1.4	R:2.5 IR:2.0	140	20

B1501 Series

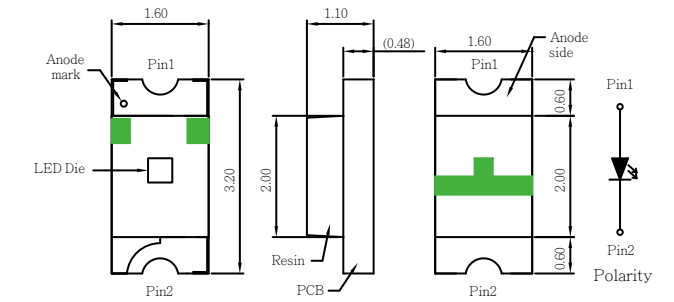
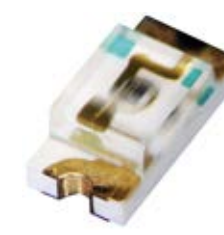
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle (2 $\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B1501IR	3.2 * 1.6 * 1.1	940	1.3	0.85	140	20

B15T1 Series

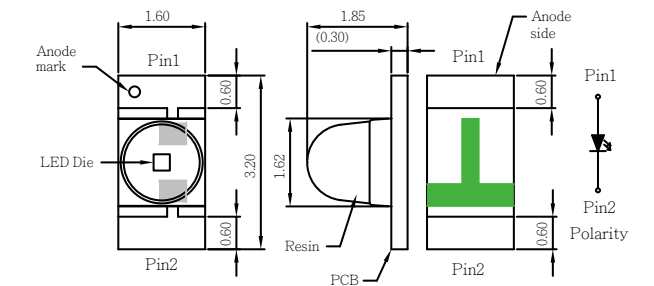
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle (2 $\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B15T1IR	3.2 * 1.6 * 1.1	940	1.45	5	140	50
B15T1IRP	3.2 * 1.6 * 1.1	850	1.36	2	140	20

B1591 Series

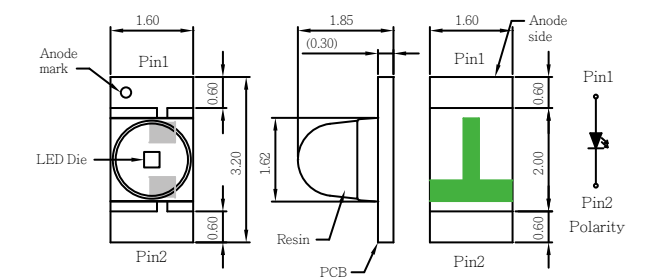
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B1591IRP	3.2 * 1.6 * 1.85	850	1.4	20	30	20

B15U1 Series

Outline Dimensions

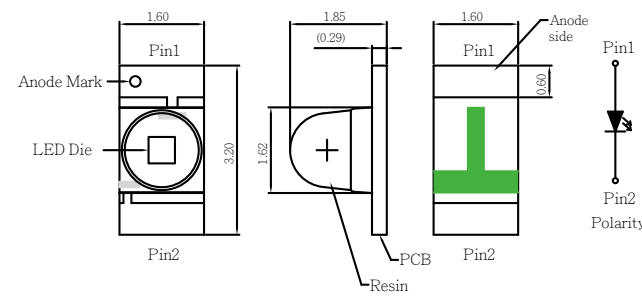


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B15U1IR	3.2 * 1.6 * 1.85	940	1.4	26	20	20
B15U1IRP	3.2 * 1.6 * 1.85	850	1.4	26	20	20

B15V1 Series



Outline Dimensions

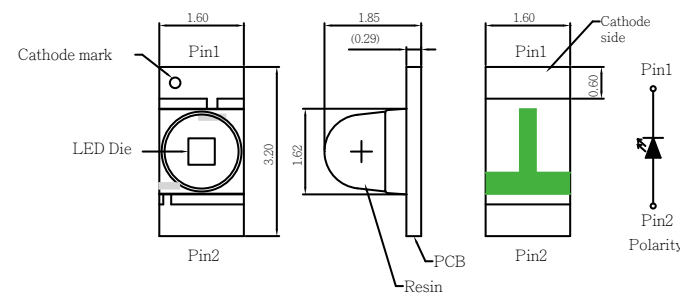


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B15V1IR	3.2 * 1.6 * 1.85	940	1.55	92	30	100
B15V1IRP	3.2 * 1.6 * 1.85	850	1.55	100	30	100
B15V1IRP (Dual-junction)	3.2 * 1.6 * 1.85	850	2.9	95	30	50

B15W1 Series



Outline Dimensions

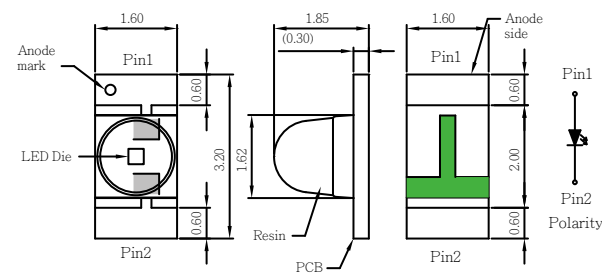


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle (2 $\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B15W1IR	3.2 * 1.6 * 1.85	940	1.2	5	30	20

B15X1 Series



Outline Dimensions

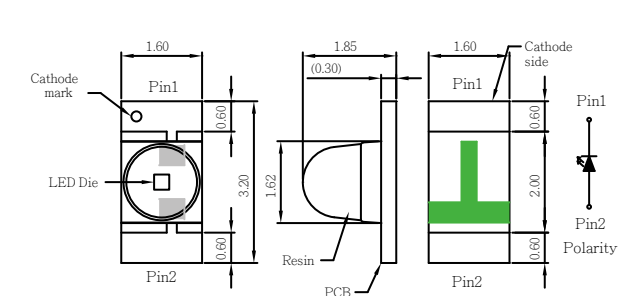


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B15X1IR	3.2 * 1.6 * 1.85	940	1.3	12	45	20
B15X1IRP	3.2 * 1.6 * 1.85	850	1.55	70	45	100

B15Y1 Series



Outline Dimensions

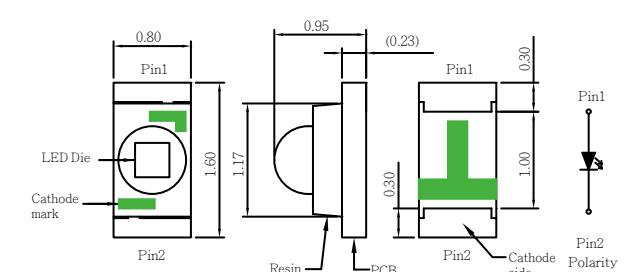


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B15Y1IR	3.2 * 1.6 * 1.85	940	1.24	4.5	20	20

B18W1 Series



Outline Dimensions

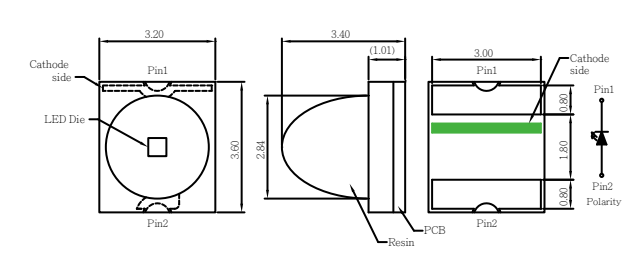


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
B18W1IR	1.6 * 0.8 * 0.95	940	1.46	23	80	100
	1.6 * 0.8 * 0.95	940	1.4	6.5	60	20
B18W1IRP	1.6 * 0.8 * 0.95	850	1.55	23	80	100
	1.6 * 0.8 * 0.95	850	1.31	5	60	20

BTL11 Series

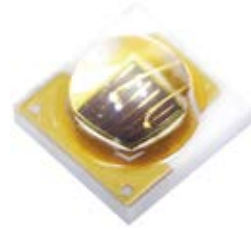


Outline Dimensions

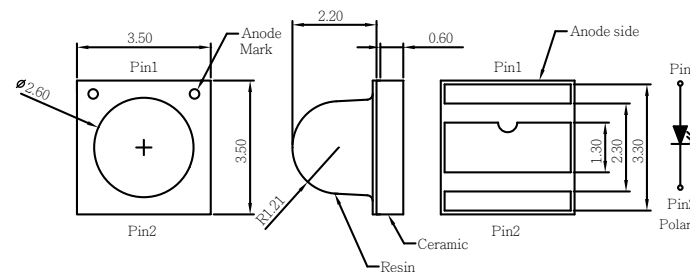


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
BTL11IR	3.6 * 3.2 * 3.4	940	1.6	270	12	100
BTL11IRP	3.6 * 3.2 * 3.4	850	1.6	290	12	100
BTL11IRA	3.6 * 3.2 * 3.4	970	1.55	270	12	100
BTL11IRS	3.6 * 3.2 * 3.4	810	1.7	290	12	100

C3511 Series



Outline Dimensions

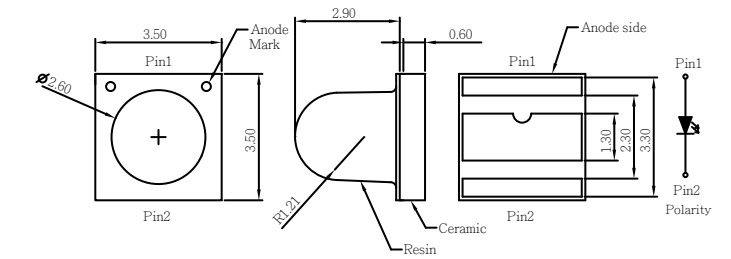


Part Number	Size (mm) L * W	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
C3511IR	3.5 * 3.5	940	2.0	400	30	700
					60	
					90	
					120	
C3511IRP	3.5 * 3.5	850	2.0	550	30	700
					60	
					90	
					120	

C3541 Series

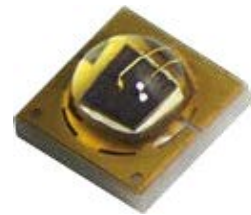


Outline Dimensions

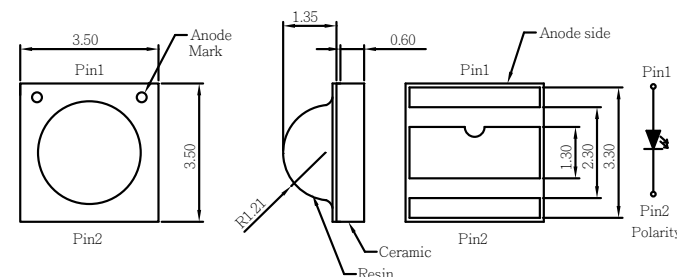


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
C3541IR	3.5 * 3.5 * 3.38	940	3.1	1150	30	1000
C3541IRP	3.5 * 3.5 * 3.38	850	3.1	1000	30	1000

C3521 Series



Outline Dimensions

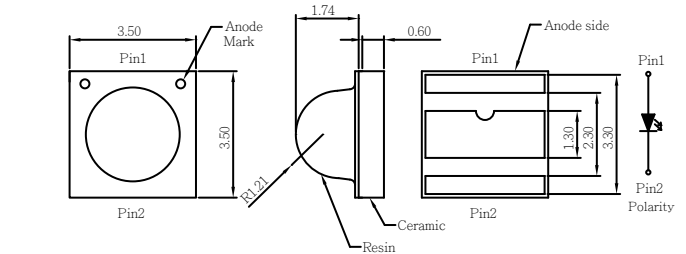


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
C3521IR	3.5 * 3.5 * 3.38	940	3.1	1150	120	1000
C3521IRP	3.5 * 3.5 * 3.38	850	3.1	1000	120	1000

C3551 Series

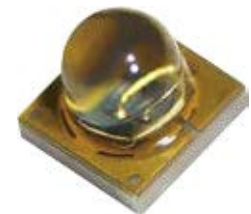


Outline Dimensions

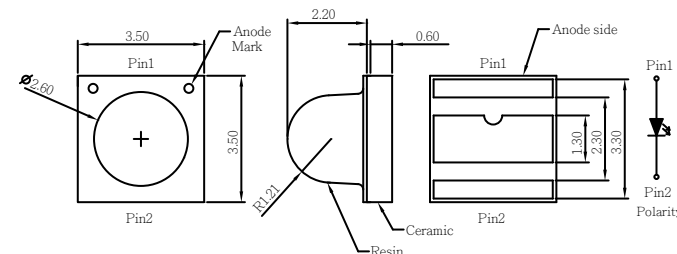


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
C3551IR	3.5 * 3.5 * 3.38	940	3.1	1150	90	1000
C3551IRP	3.5 * 3.5 * 3.38	850	3.1	1000	90	1000

C3531 Series



Outline Dimensions

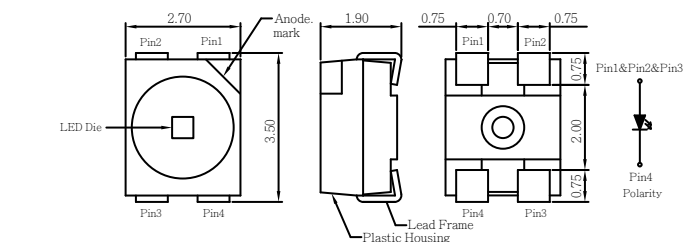


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
C3531IR	3.5 * 3.5 * 3.38	940	3.1	1150	60	1000
C3531IRP	3.5 * 3.5 * 3.38	850	3.1	1000	60	1000

T16C1 Series



Outline Dimensions

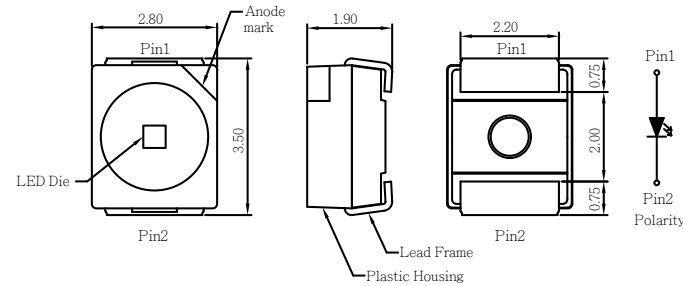


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
T16C1IR	3.5 * 2.7 * 1.9	940	1.4	4	120	20
T16C1IRP	3.5 * 2.7 * 1.9	850	3.2	25	120	100
		850	1.5	18	120	100

T16P1 Series



Outline Dimensions

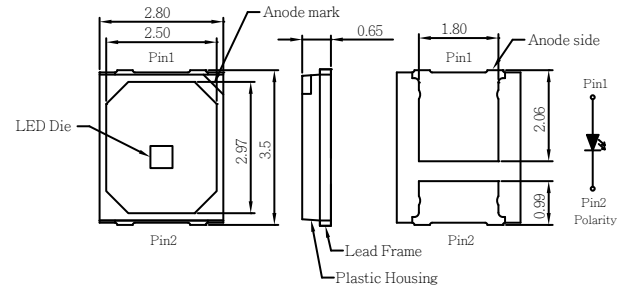


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V _F)	Radiant Intensity (mW/sr)	Viewing Angle (2 $\theta_{1/2}$)	I _F (mA)
		Typ.	Typ.	Typ.	Typ.	
T16P1IR	3.5 * 2.8 * 1.9	940	1.4	3.5	120	20
T16P1IRP	3.5 * 2.8 * 1.9	850	1.5	3.5	120	20
T16P1IRE	3.5 * 2.8 * 1.9	880	1.36	1.4	120	20

T16W1 Series



Outline Dimensions

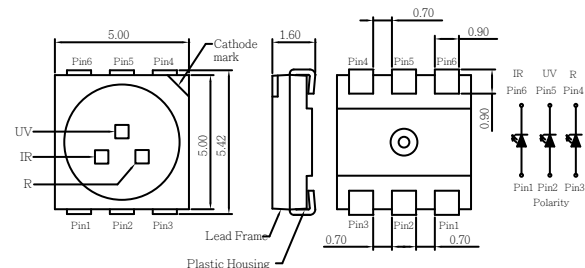


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V _F)	Radiant Intensity (mW/sr)	Viewing Angle (2 $\theta_{1/2}$)	I _F (mA)
		Typ.	Typ.	Typ.	Typ.	
T16W1IR	3.5 * 2.8 * 0.65	940	2.4	135	120	700
T16W1IRP	3.5 * 2.8 * 0.65	850	1.6	48	120	250

T3A83 Series



Outline Dimensions

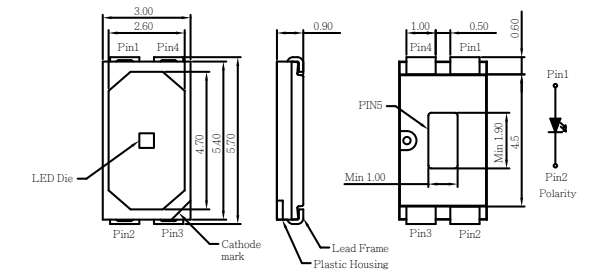


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V _F)	Radiant Intensity (mW/sr)	View Angle (deg)	I _F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
T3A83RURP	5.4 * 5.0 * 1.6	R(WD): 619	R: 2.2	R: 11	120	20
		UV(WP): 415	UV: 3.2	UV: 11		
		IR(WP): 835	IR: 1.55	IR: 11		

T5301 Series



Outline Dimensions

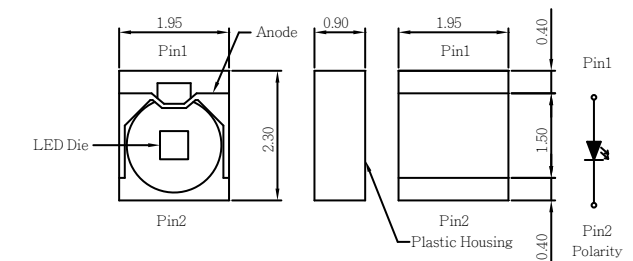


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V _F)	Radiant Intensity (mW/sr)	View Angle (deg)	I _F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
T5301VCP	5.7 * 3.0 * 0.9	850	2.4	100	30	200

W2321 Series



Outline Dimensions

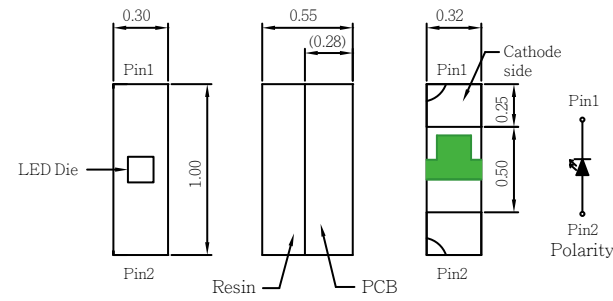


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V _F)	Radiant Intensity (mW/sr)	View Angle (deg)	I _F (mA)
		Typ.	Typ.	Typ.	2 $\theta_{1/2}$	
W2321IRP	2.3 * 1.95 * 0.9	850	1.56	42	45	100
W2321IRX	2.3 * 1.95 * 0.9	850	1.56	36	60	100
W2321IRX	2.3 * 1.95 * 0.9	1400	0.8	1.5	12	20

B1861 Series



Outline Dimensions

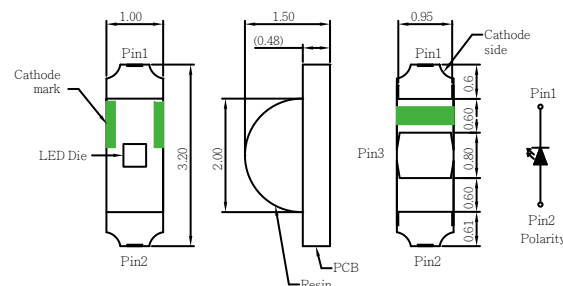


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B1861IR	1.0 * 0.55 * 0.3	940	1.7	3.0	140	50
B1861IRP	1.0 * 0.55 * 0.3	850	1.54	3.9	140	50

B1101 Series



Outline Dimensions

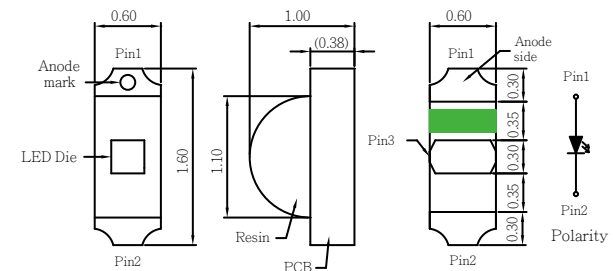


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B1101IR	3.2 * 1.5 * 1.0	940	1.6	3	140/120	100

B12F1 Series

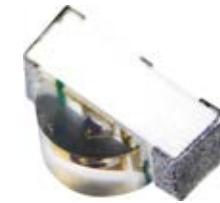


Outline Dimensions

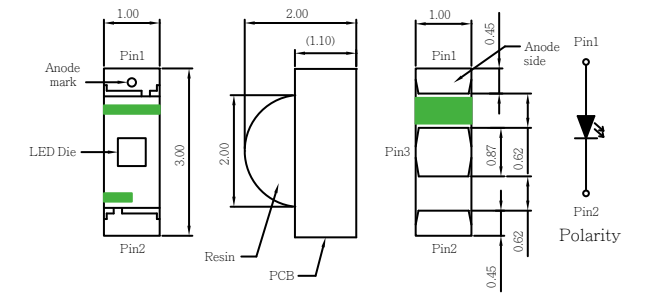


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B12F1IR	1.6 * 1.0 * 0.6	940	1.45	5.3	140/120	50

B2141 Series



Outline Dimensions

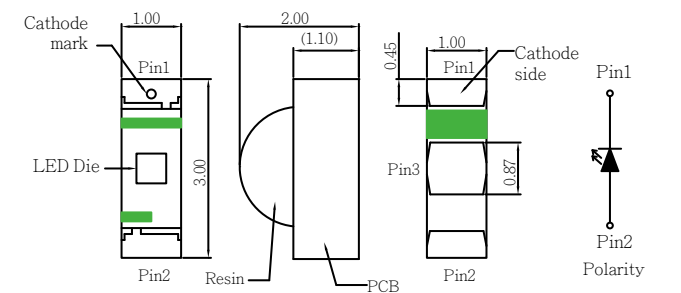


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B2141IR	3.0 * 2.0 * 1.0	940	1.33	45	140/120	100

B2151 Series



Outline Dimensions

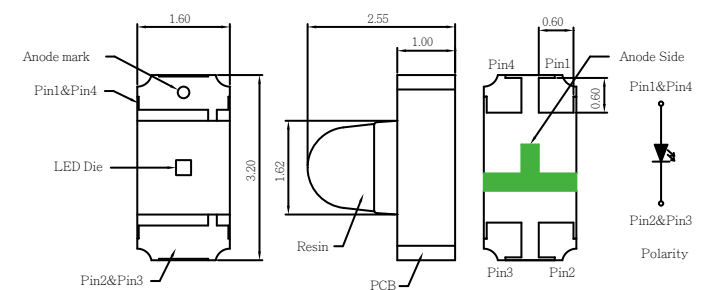


Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	View Angle (deg)	I_F (mA)
		Typ.	Typ.	Typ.	$2\theta_{1/2}$	
B2151IR	3.0 * 2.0 * 1.0	940	1.21	0.85	140/120	20

B2571 Series



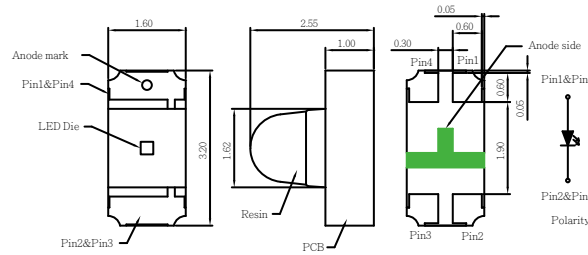
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B2571IR	3.2 * 2.55 * 1.6	940	1.46	92	30	100
B2571IRP	3.2 * 2.55 * 1.6	850	1.58	100	30	100

B2581 Series

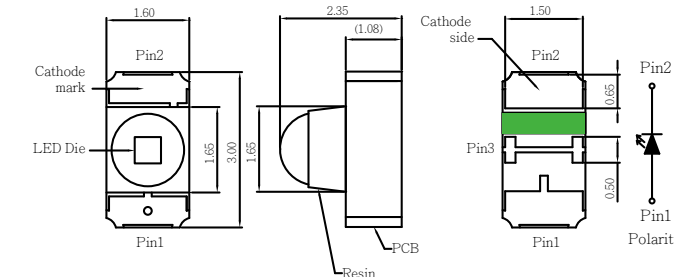
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B2581IR	3.2 * 2.55 * 1.6	940	1.4	26	20	20
B2581IRP	3.2 * 2.55 * 1.6	850	1.4	26	20	20

B4301 Series

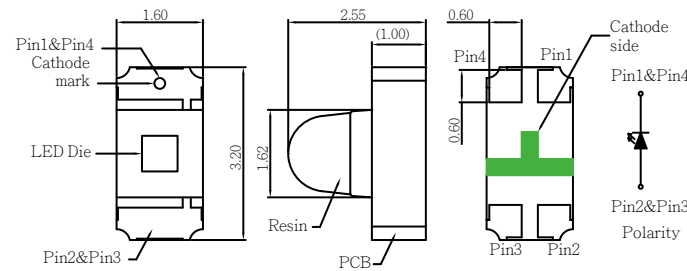
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B4301IR	3.0 * 2.35 * 1.6	940	1.3	6.5	60	20
B4301IR	3.0 * 2.35 * 1.6	940	1.45	50	60	100
B4301IRP	3.0 * 2.35 * 1.6	850	1.37	7.5	60	20

B2591 Series

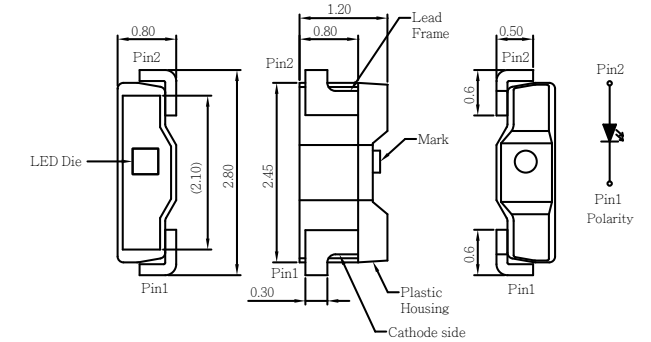
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
B2591IR	3.2 * 2.55 * 1.6	940	1.4	4.8	20	20
B2591IRP	3.2 * 2.55 * 1.6	850	1.45	11	20	20

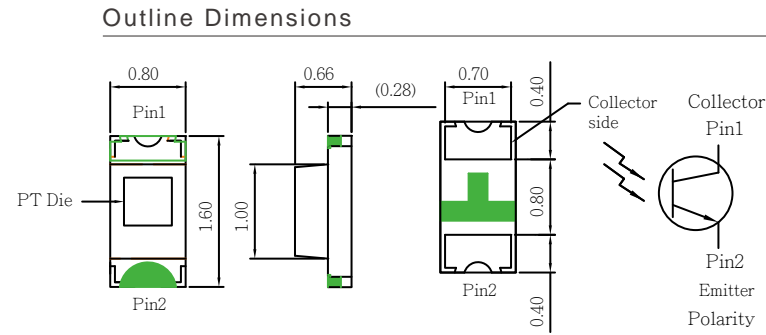
F1081 Series

Outline Dimensions



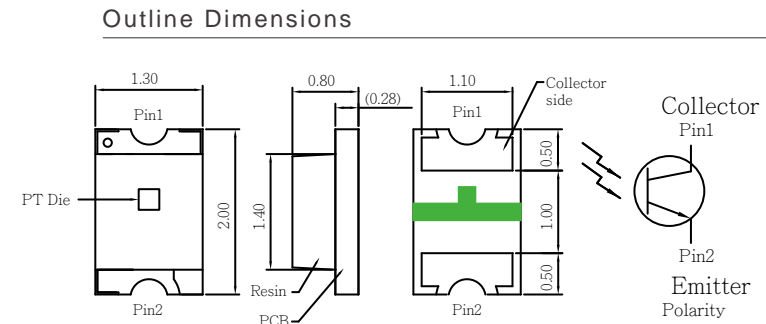
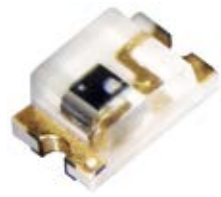
Part Number	Size (mm) L * W * H	λ_p (nm)	Forward Voltage (V_F)	Radiant Intensity (mW/sr)	Viewing Angle ($2\theta_{1/2}$)	I_F (mA)
		Typ.	Typ.	Typ.	Typ.	
F1081IR	2.8 * 1.2 * 0.8	940	1.5	12.5	120	100
F1081IRP	2.8 * 1.2 * 0.8	850	1.9	13	120	100

B13V1 Series



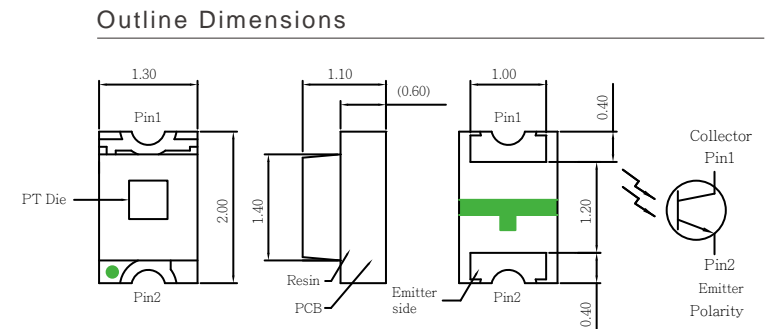
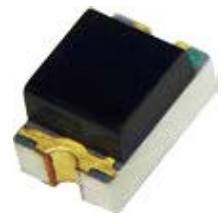
Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (μ S)	$I_{C(ON)}$ (mA)		$V_{CE(sat)}$ (V) Max.	I_{CEO} (nA) Max.	Resin
				Min.	Typ.			
B13V1PT	1.6 * 0.8 * 0.66	940	15/15	0.9	1.2	0.4	100	Clear
B13V1PT	1.6 * 0.8 * 0.66	940	15/15	0.9	1.2	0.4	100	Black

B1701 Series



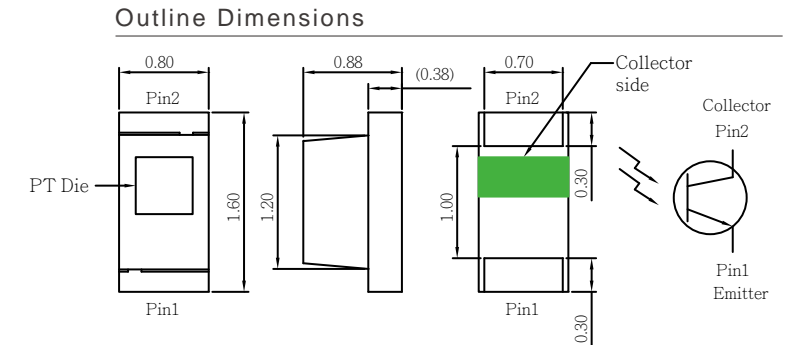
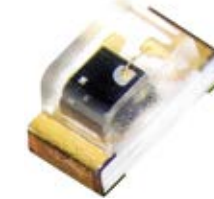
Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (μ S)	$I_{C(ON)}$ (mA)		$V_{CE(sat)}$ (V) Max.	I_{CEO} (nA) Max.	Resin
				Min.	Typ.			
B1701PT	2.0 * 1.3 * 0.8	940	15/15	0.1	1	0.4	100	Clear
B1701PT	2.0 * 1.3 * 0.8	940	15/15	0.1	1	0.4	100	Black

B17L1 Series



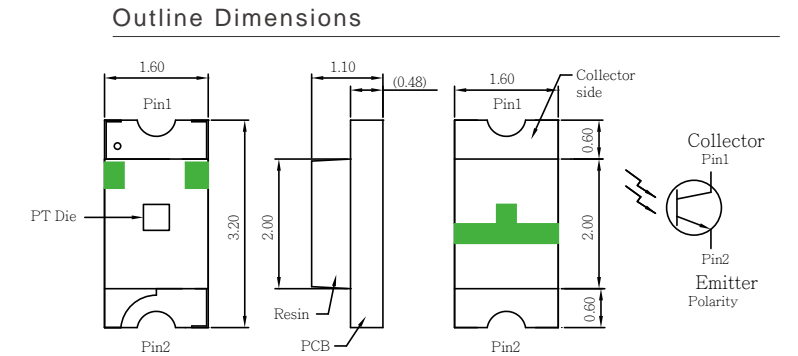
Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (μ S)	$I_{C(ON)}$ (mA)		$V_{CE(sat)}$ (V) Max.	I_{CEO} (nA) Max.
				Min.	Typ.		
B17L1PT	2.0 * 1.3 * 1.1	940	15/15	0.1	0.65	0.4	100

B19H1 Series



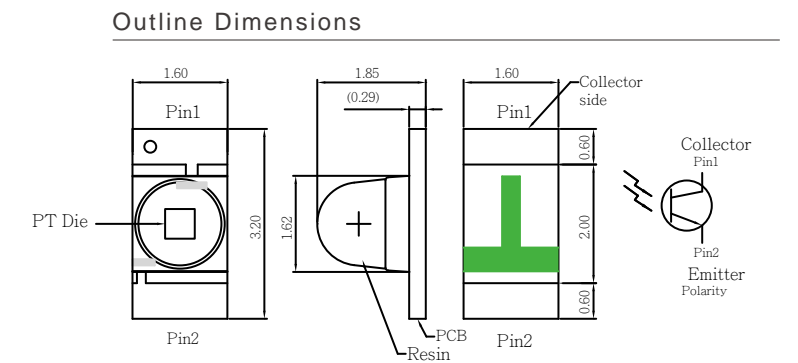
Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (μ S)	$I_{C(ON)}$ (mA)		$V_{CE(sat)}$ (V) Max.	I_{CEO} (nA) Max.	Resin
				Min.	Typ.			
B19H1PT	1.6 * 0.8 * 0.88	940	15/15	0.9	1.2	0.4	100	Clear
B19H1PT	1.6 * 0.8 * 0.88	940	15/15	0.9	1.2	0.4	100	Black

B1501 Series



Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (μ S)	$I_{C(ON)}$ (mA)		$V_{CE(sat)}$ (V) Max.	I_{CEO} (nA) Max.	Resin
				Min.	Typ.			
B1501PT	3.2 * 1.6 * 1.1	940	15/15	0.1	0.5	0.4	100	Black
B1501PT	3.2 * 1.6 * 1.1	940	15/15	0.1	0.5	0.4	100	Clear

B15W1 Series

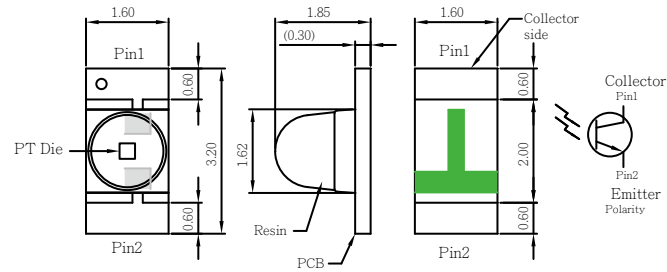


Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (μ S)	$I_{C(ON)}$ (mA)		$V_{CE(sat)}$ (V) Max.	I_{CEO} (nA) Max.	Resin
				Min.	Typ.			
B15W1PT	3.2 * 1.6 * 1.85	940	15/15	0.6	1	0.4	100	Black
B15W1PT	3.2 * 1.6 * 1.85	940	15/15	0.6	1	0.4	100	Clear

B15Y1 Series

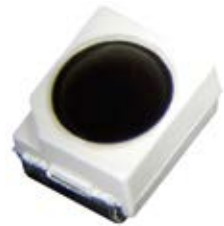


Outline Dimensions

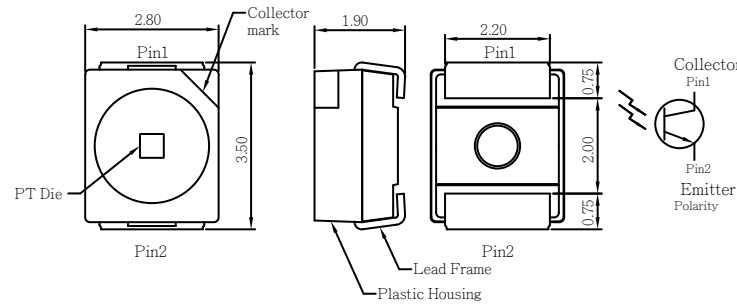


Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (μ S)	$I_{C(ON)}$ (mA)		$V_{CE(sat)}$ (V)	I_{CEO} (nA)	Resin
				Min.	Typ.	Max.	Max.	
B15Y1PT	3.2 * 1.6 * 1.85	940	15/15	3.0	5.0	0.4	100	Black
B15Y1PT	3.2 * 1.6 * 1.85	940	15/15	3.0	5.0	0.4	100	Clear

T1691 Series



Outline Dimensions

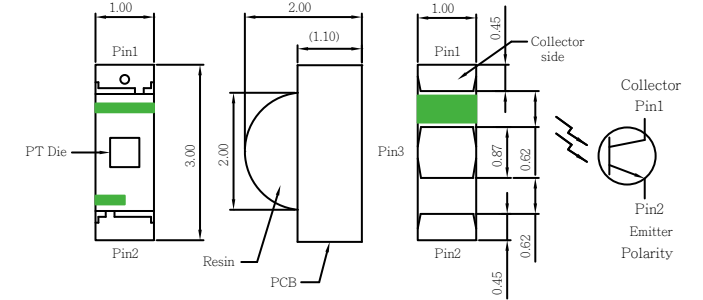


Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (μ S)	$I_{C(ON)}$ (mA)		$V_{CE(sat)}$ (V)	I_{CEO} (nA)	Resin
				Min.	Typ.	Max.	Max.	
T1691PT	3.5 * 2.8 * 1.9	940	15/15	0.6	1	0.4	100	Black
T1691PT	3.5 * 2.8 * 1.9	940	15/15	0.6	1	0.4	100	Clear

B2151 Series



Outline Dimensions

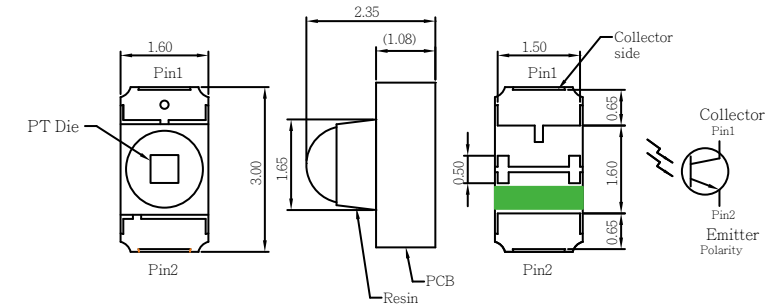


Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (μ S)	$I_{C(ON)}$ (mA)		$V_{CE(sat)}$ (V)	I_{CEO} (nA)
				Min.	Typ.	Max.	Max.
B2151PT	3.0 * 2.0 * 1.0	940	15/15	0.2	0.35	0.4	100

B4301 Series



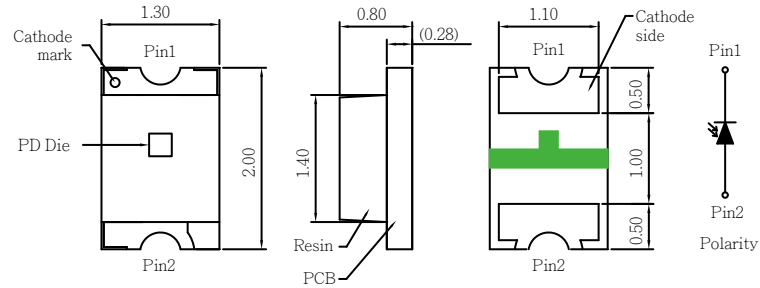
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (μ S)	$I_{C(ON)}$ (mA)		$V_{CE(sat)}$ (V)	I_{CEO} (nA)	Resin
				Min.	Typ.	Max.	Max.	
B4301PT	3.0 * 2.35 * 1.6	940	15/15	1.4	2	0.4	100	Black
B4301PT	3.0 * 2.35 * 1.6	940	15/15	1.4	2	0.4	100	Clear

B17M1 Series

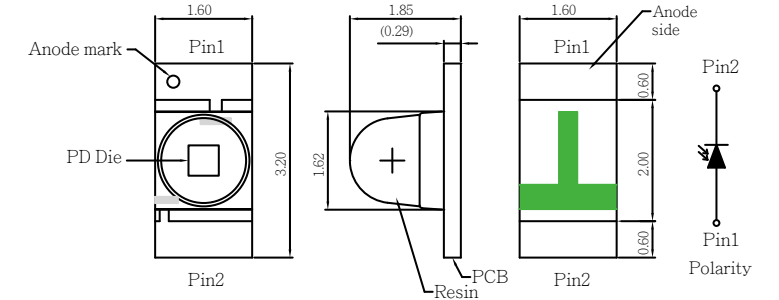
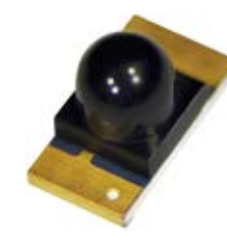
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (nS)	$I_L(\mu A)$		V_{BR} (V)	I_D (nA)	Resin
				Min.	Typ.	Min.	Max.	
B17M1PD	2.0 * 1.3 * 0.8	940	10/10	0.5	-	32	10	

B15W1 Series

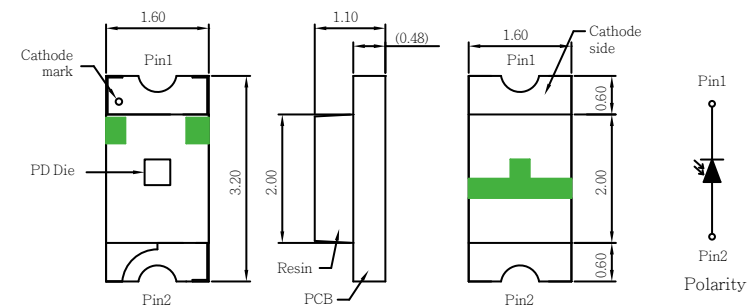
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (uS)	$I_L(\mu A)$		V_{BR} (V)	I_D (nA)	Resin
				Min.	Typ.	Max.	Max.	
B15W1PD	3.2 * 1.6 * 1.85	940	6/6	2	2.9	32	10	Black
B15W1PD	3.2 * 1.6 * 1.85	940	6/6	2	2.9	32	10	Clear

B1501 Series

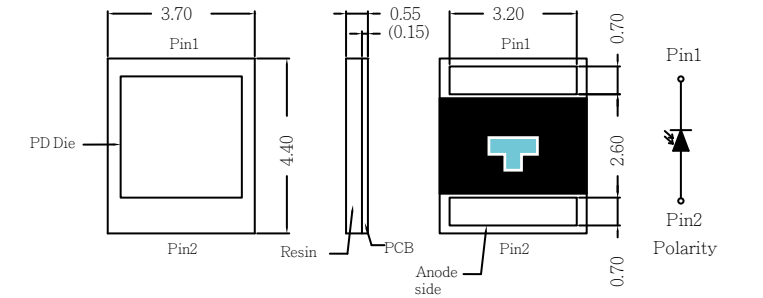
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (uS)	$I_L(\mu A)$		V_{BR} (V)	I_D (nA)	Resin
				Min.	Typ.	Max.	Max.	
B1501PD	3.2 * 1.6 * 1.1	940	6/6	0.2	0.87	32	10	Black
B1501PD	3.2 * 1.6 * 1.1	940	6/6	0.2	0.87	32	10	Clear

B4471 Series

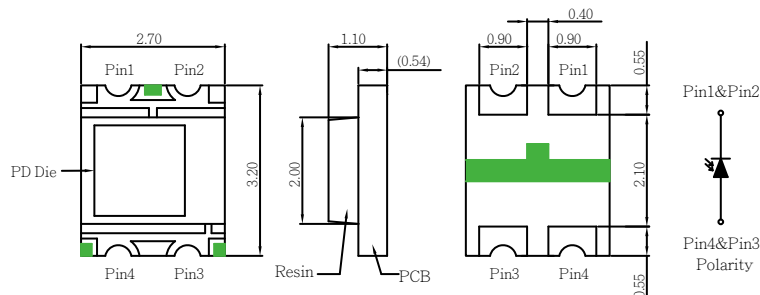
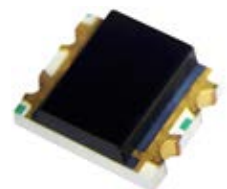
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (nS)	$I_L(\mu A)$		V_{BR} (V)	I_D (nA)	Resin
				Min.	Typ.	Min.	Max.	
B4471PD	4.4 * 3.7 * 0.55	940	10/10	15	20	100	10	

B15P1 Series

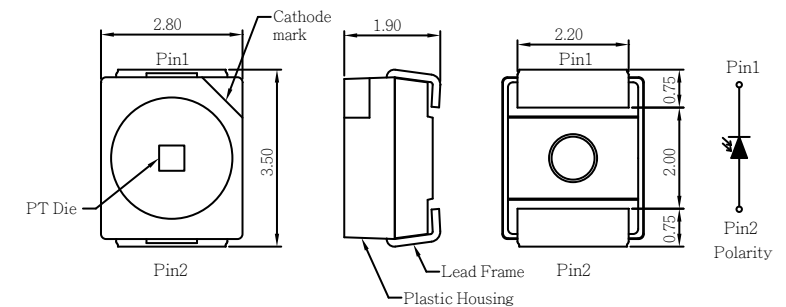
Outline Dimensions



Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (uS)	$I_L(\mu A)$		V_{BR} (V)	I_D (nA)	Resin
				Min.	Typ.	Max.	Max.	
B15P1PD	3.2 * 2.7 * 1.1	940	10/10	5.7	10	35	10	Black
B15P1PD	3.2 * 2.7 * 1.1	940	10/10	5.7	10	35	10	Clear

T1691 Series

Outline Dimensions

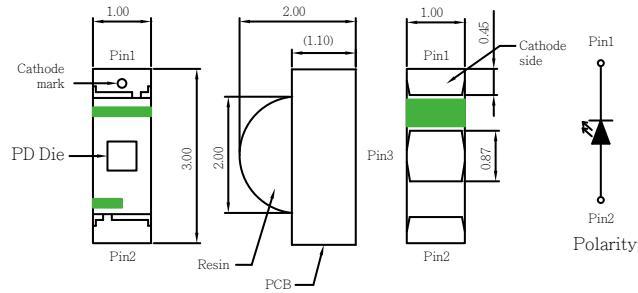


Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (nS)	$I_L(\mu A)$		V_{BR} (V)	I_D (nA)	Resin
				Min.	Typ.	Min.	Max.	
T1691PD	3.5 * 2.8 * 1.9	940	6/6	0.2	0.87	32	10	

B2151 Series



Outline Dimensions



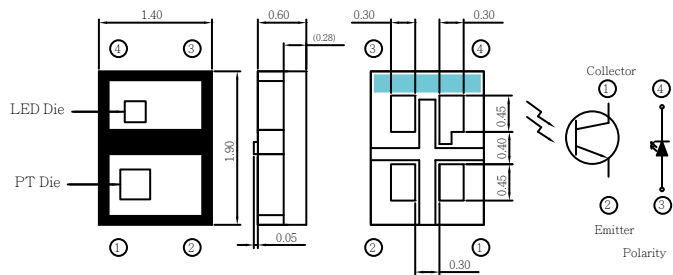
Part Number	Size (mm) L * W * H	λ_p (nm)	Rise/Fall Time (nS)	I_L (μ A)		V_{BR} (V)	I_D (nA)
				Min.	Typ.		
B2151PD	3.0 * 2.0 * 1.0	940	6/6	0.1	0.58	33	10

Interrupter / Top View

B4192 Series



Outline Dimensions

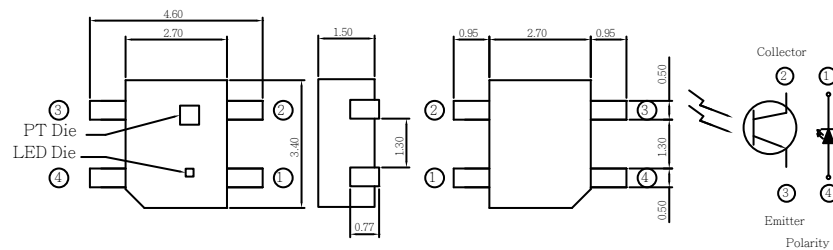


Part Number	Size (mm) L * W * H	$I_{C(ON)}$ (mA)		VF	$I_{CE(SAT)}$ (nA)
		Min.	Typ.		
B4192PTIR	1.9 * 1.4 * 0.65	-	0.25	1.24	0.4

T4642 Series

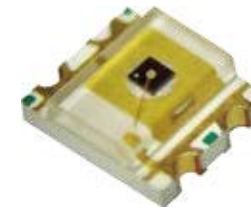


Outline Dimensions

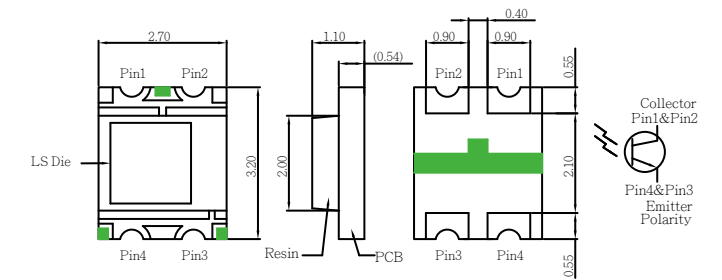


Part Number	Size (mm) L * W * H	$I_{C(ON)}$ (mA)		VF	$I_{CE(SAT)}$ (nA)
		Min.	Typ.		
T4642PTIR	4.6 * 3.4 * 1.62	0.18	0.27	1.28	0.4

B15P1 Series

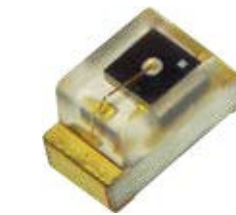


Outline Dimensions

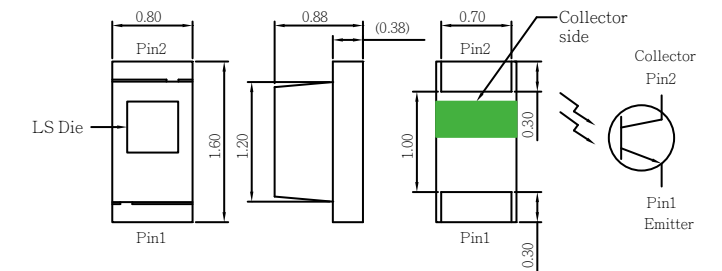


Part Number	Size (mm) L * W * H	Sensitivity λ_p (nm)	Range λ_p (nm)	VCE (SAT) (V)	I_{PH1} (μ A)	I_{PH2} (μ A)	I_{PH3} (μ A)	I_{PH4} (μ A)	ID (nA)
				Max.	$E_V=100$ Lx (@6500K)	$E_V=1000$ Lx (@6500K)	$E_V=1000$ Lx (@2856K)	$E_V=1000$ Lx (@4600K)	
B15P1LS	3.2 * 2.7 * 1.1	630	390~700	0.4	30	330	620	790	100

B19H1 Series

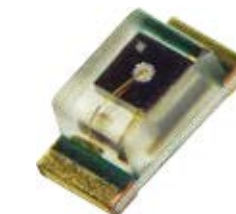


Outline Dimensions

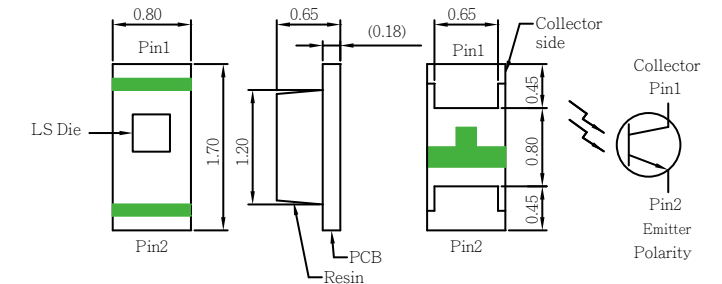


Part Number	Size (mm) L * W * H	Sensitivity λ_p (nm)	Range λ_p (nm)	VCE (SAT) (V)	I_{PH1} (μ A)	I_{PH2} (μ A)	I_{PH3} (μ A)	I_{PH4} (μ A)	ID (nA)
				Max.	$E_V=100$ Lx (@6500K)	$E_V=1000$ Lx (@6500K)	$E_V=1000$ Lx (@2856K)	$E_V=1000$ Lx (@4600K)	
B19H1LS	1.6 * 0.8 * 0.88	630	390~700	0.4	25	280	620	-	100

B19V1 Series



Outline Dimensions



Part Number	Size (mm) L * W * H	Sensitivity λ_p (nm)	Range λ_p (nm)	VCE (SAT) (V)	I_{PH1} (μ A)	I_{PH2} (μ A)	I_{PH3} (μ A)	I_{PH4} (μ A)	ID (nA)
				Max.	$E_V=100$ Lx (@6500K)	$E_V=1000$ Lx (@6500K)	$E_V=1000$ Lx (@2856K)	$E_V=1000$ Lx (@4600K)	
B19V1LS	1.7 * 0.8 * 0.66	630	390~700	0.4	25	280	620	-	100

Notice :

Product information in this catalog is for reference only.

Please check products Detailed Information on the HARVATEK website at :

www.harvatek.com.

Any question about of customized products are welcome to get in touch with HARVATEK sales or one of our authorized distributors should you need any additional information on any of the products listed.



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