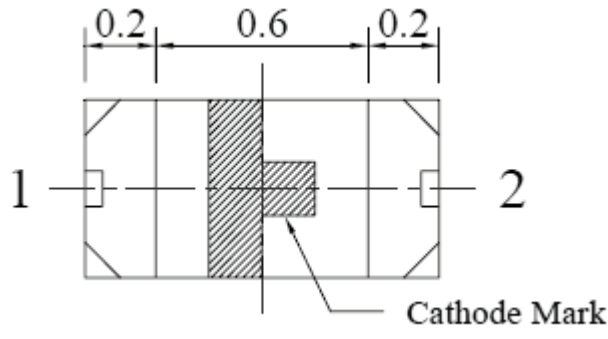
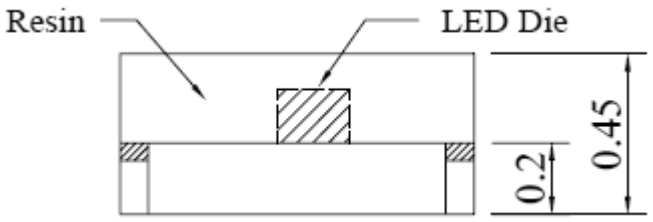
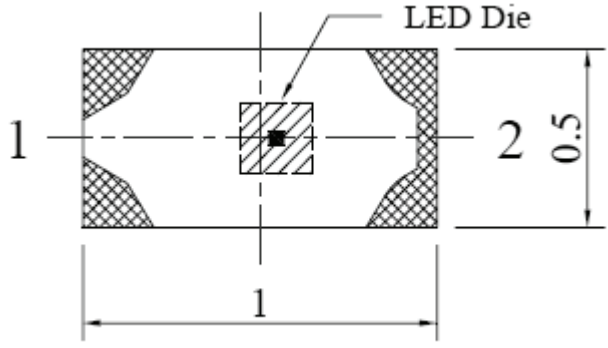
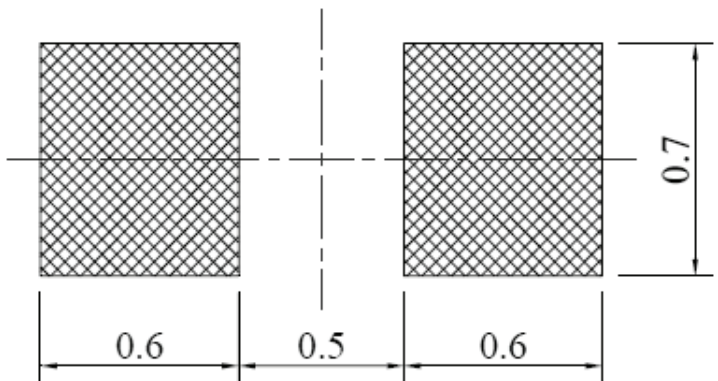


SPECIFICATION **CS42CG2C**
PACKAGE OUTLINES

RECOMMEND SOLDER PATTERN

Polarity

- Notes:
1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS42CG2C	InGaAlP	Green	Water Clear	120°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	IF	25	mA
Reverse Current @ 5V	IR	10	μA
Power Dissipation	Pd	60	mW
Operating Temperature Range	TOP	-40~+80	°C
Storage Temperature Range	TSTG	-40~+82	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	IFP	100	mA
Soldering Temperature	TSOL	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

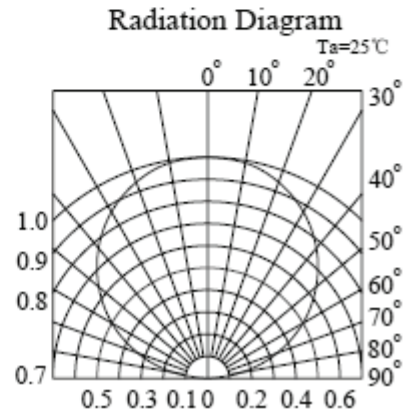
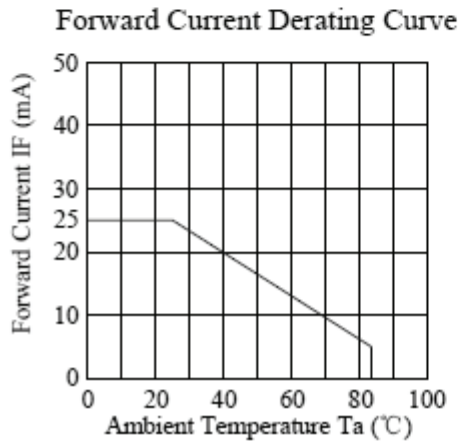
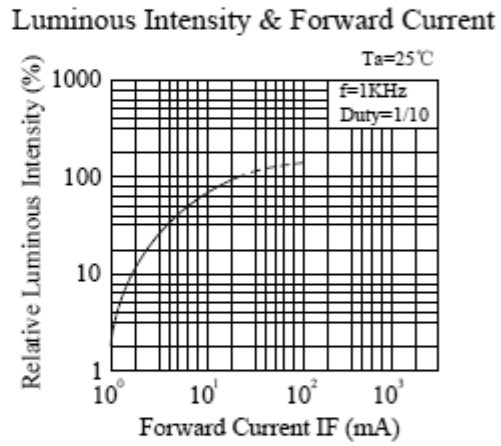
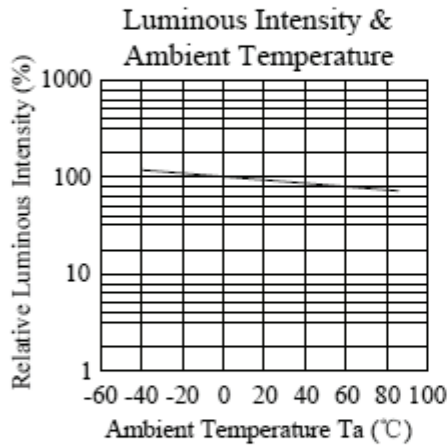
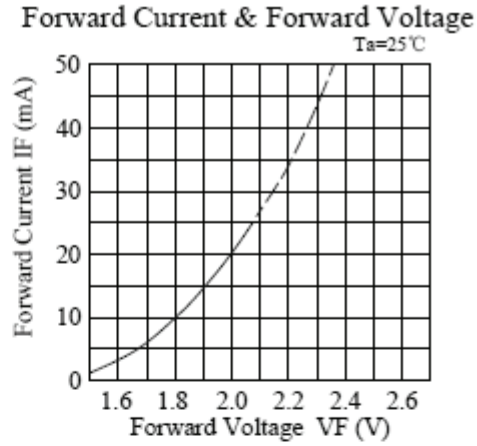
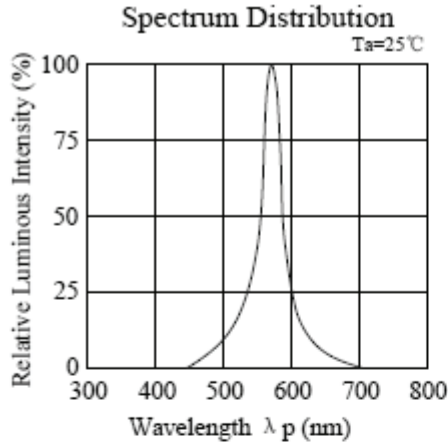
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	Iv	IF = 20mA	40	80	-	mcd
Forward Voltage	VF	IF = 20mA	-	2.0	2.4	V
Reverse Leakage Current	IR	VR = 5V	-	10	-	μA
Viewing Angle at 50% Iv	2θ1/2	IF = 20mA	-	120	-	Deg
Peak Wavelength	λP	IF = 20mA	-	575	-	nm
Dominant Wavelength	λD	IF = 20mA	-	573	-	nm

*Tolerance of viewing angle: -10 / +5 deg.

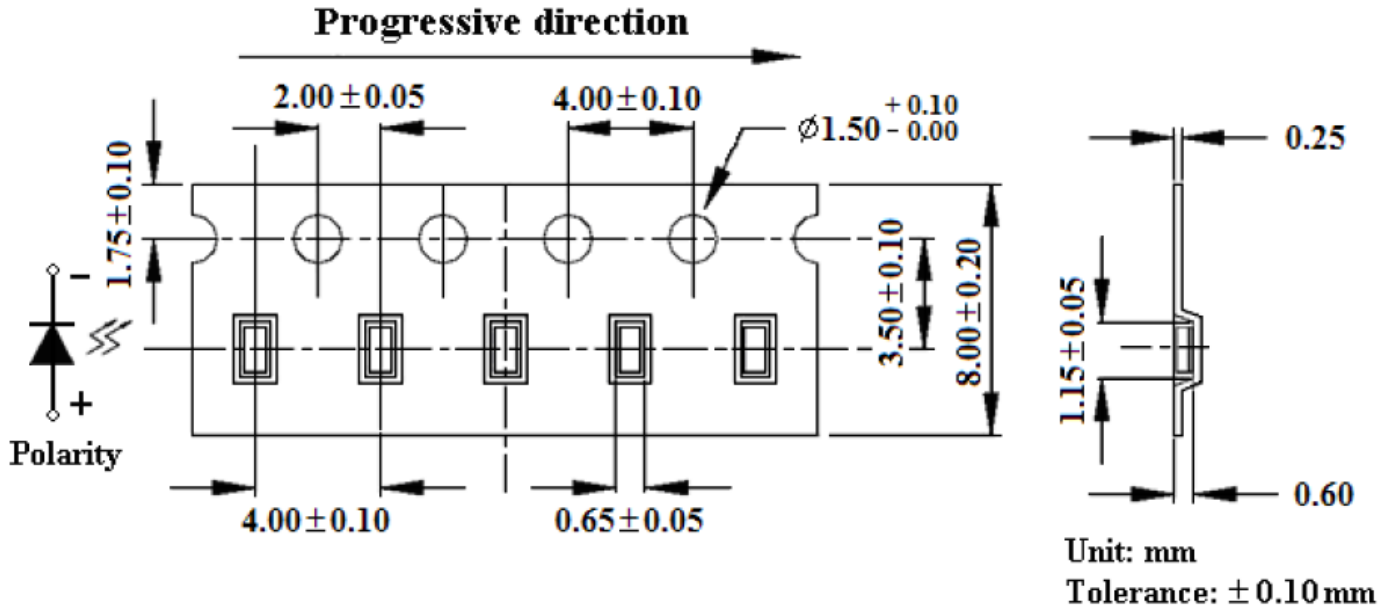
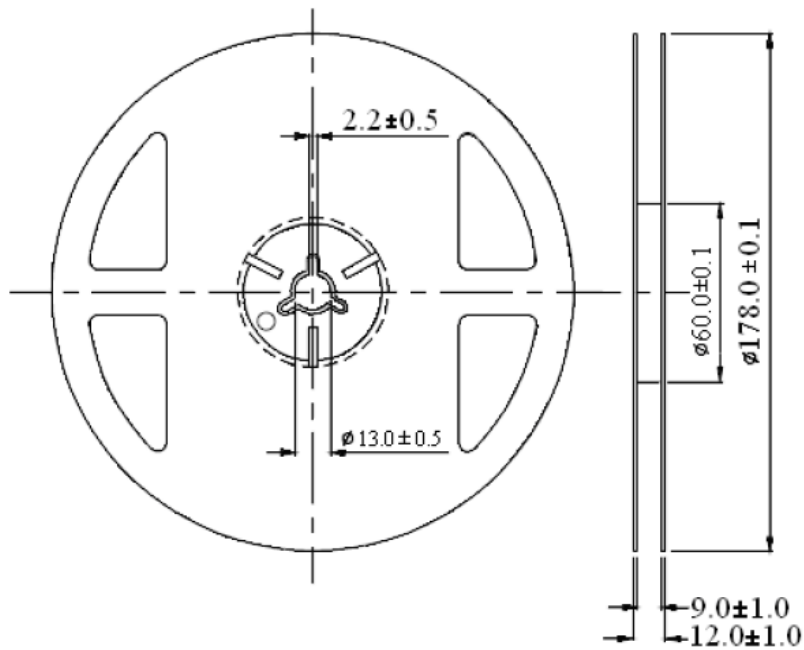


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OPTICAL CHARACTERISTIC CURVES



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PACKAGING SPECIFICATION
CARRIER TAPE DIMENSIONS

REEL DIMENSIONS


Unit: mm
Tolerance: ± 0.25 mm

Loaded quantity per reel: 3000 pcs



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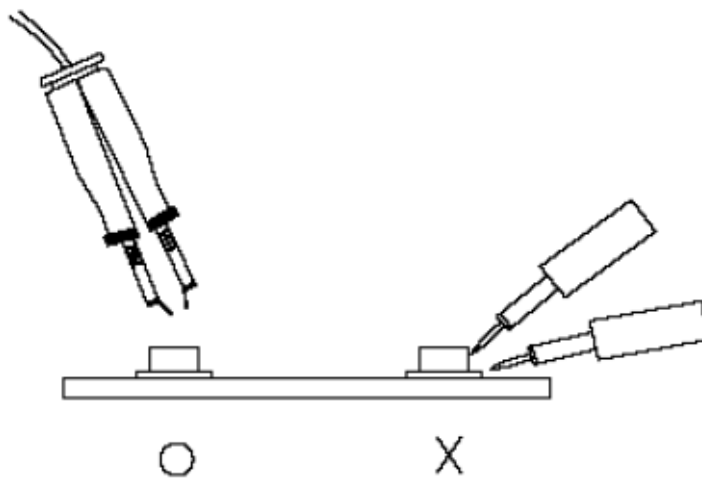
SOLDERING CONDITIONS

SOLDERING CONDITION

- When soldering for lamp without stopper type, a minimum of 3mm clearance from the base of the lens to the soldering point must be observed.
- To avoid the epoxy climb to the lead frame and impact to non-soldering problem, dipping the lens into the solder must be avoided.
- Do not apply any external stress to the lead frame during soldering while the LED is at high temperature.
- Recommended soldering condition

Soldering Iron		Wave Soldering	
Temperature	300°C Max.	Pre-heat	100°C Max.
Soldering Time	3 sec. Max. (one time only)	Pre-heat Time	60 sec. Max.
		Solder Wave	260°C Max.
		Soldering Time	5 sec. Max.

- Excessive soldering temperature and/or time might result in deformation of the LED lens or catastrophic failure of the LED.
- Soldering Iron: each terminal is to go to the tip of the soldering iron temperature less than 260 °C for 5 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals and solder each terminal. Be careful because the damage of the product is often started at the time of the hand solder.
- Repairing: repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.



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