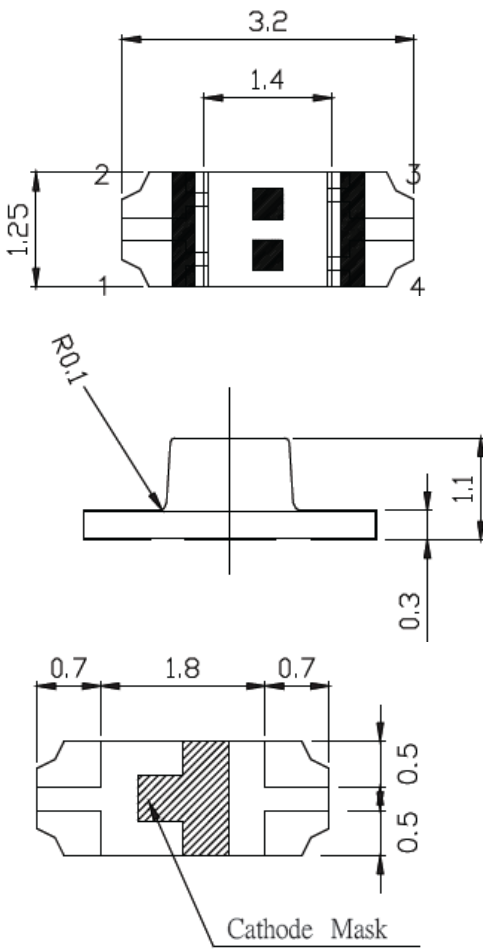
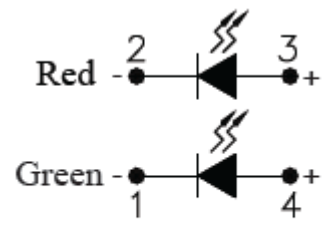


SPECIFICATIONS **CSB125R2G2C-R**

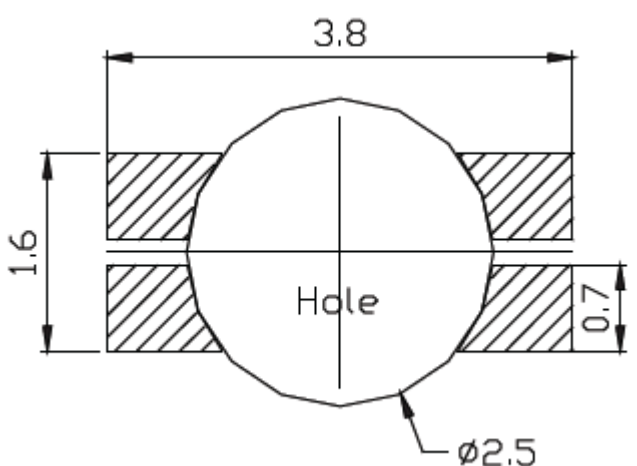
OUTLINES DIMENSIONS





Polarity

RECOMMENDED PAD LAYOUT



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
CSB125R2G2C-R	InGaAlP	Red	Water Clear	130°
	InGaAlP	Green		



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ABSOLUTE MAXIMUM RATINGS - RED (InGaAlP)
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	60	mW
Pulse Forward Current	IFP	60	mA
Continuous Forward Current	IF	25	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	TOPR	-40~+85	°C
Storage Temperature Range	TSTG	-40~+90	°C
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤ 1/10. Soldering Condition: 260 °C/ 10sec			

OPTICAL-ELECTRICAL CHARACTERISTICS - RED (InGaAlP)
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	IV	IF = 20mA	36	65	-	mcd
Forward Voltage	VF	IF = 20mA	-	2.0	2.4	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	µA
Peak Wavelength	λP	IF = 20mA	-	632	-	nm
Dominant Wavelength	λD	IF = 20mA	-	624	-	nm
Spectral Radiation Bandwidth	Δλ	IF = 20mA	-	20	-	nm



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ABSOLUTE MAXIMUM RATINGS - GREEN (InGaAlP)
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	60	mW
Pulse Forward Current	IFP	60	mA
Continuous Forward Current	IF	25	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	TOPR	-40~+85	°C
Storage Temperature Range	TSTG	-40~+90	°C
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 10sec			

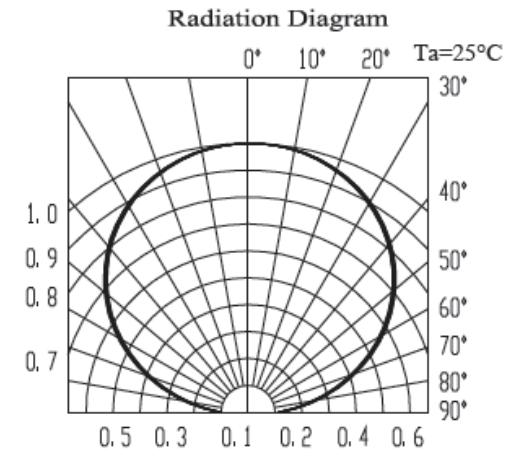
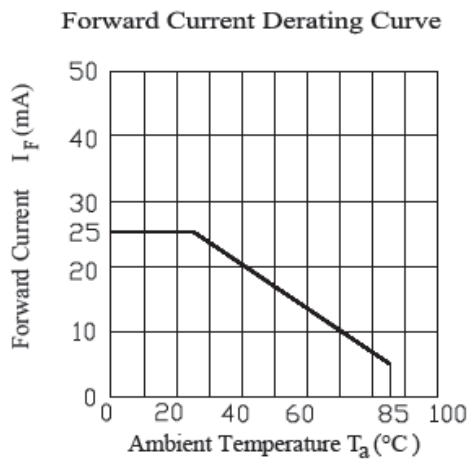
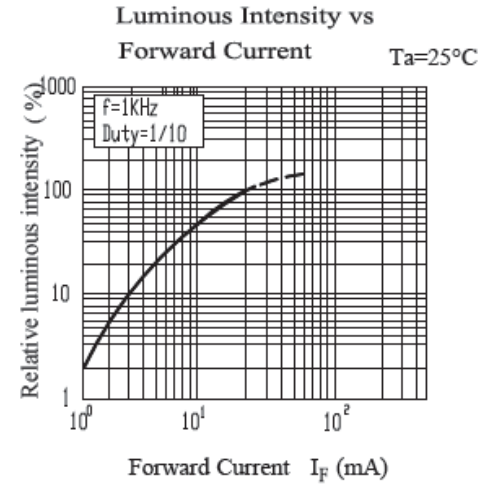
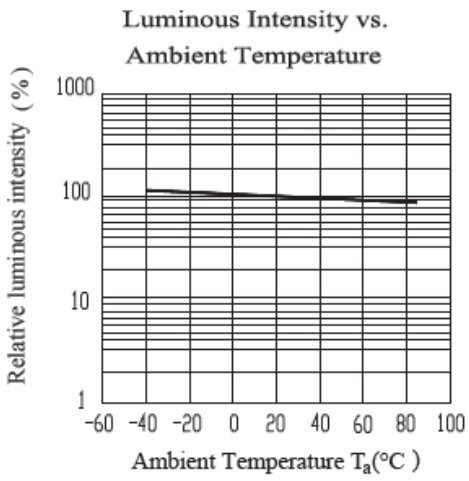
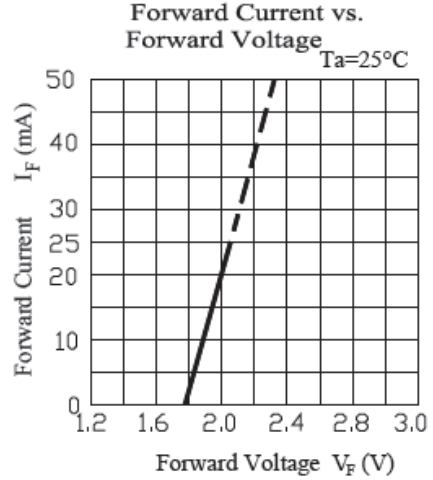
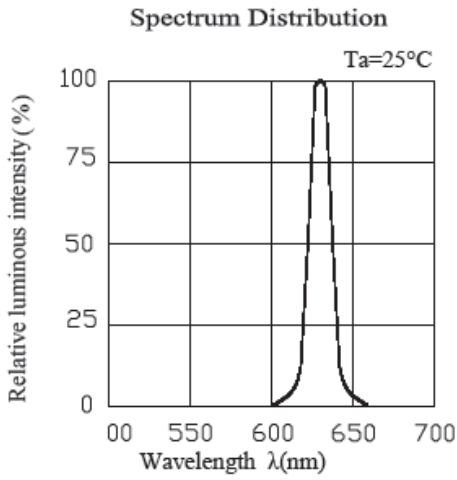
OPTICAL-ELECTRICAL CHARACTERISTICS - GREEN (InGaAlP)
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	IV	IF = 20mA	23	40	-	mcd
Forward Voltage	VF	IF = 20mA	-	2.0	2.4	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	µA
Peak Wavelength	λP	IF = 20mA	-	575	-	nm
Dominant Wavelength	λD	IF = 20mA	-	573	-	nm
Spectral Radiation Bandwidth	Δλ	IF = 20mA	-	20	-	nm



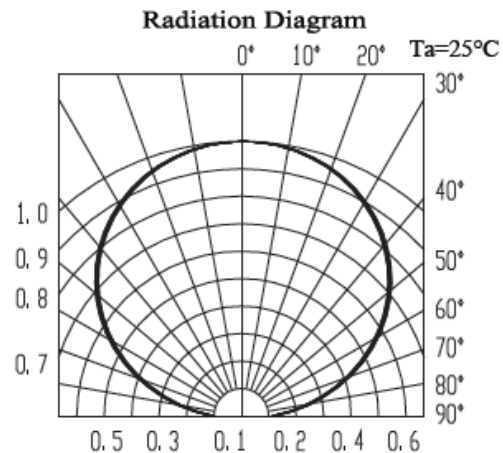
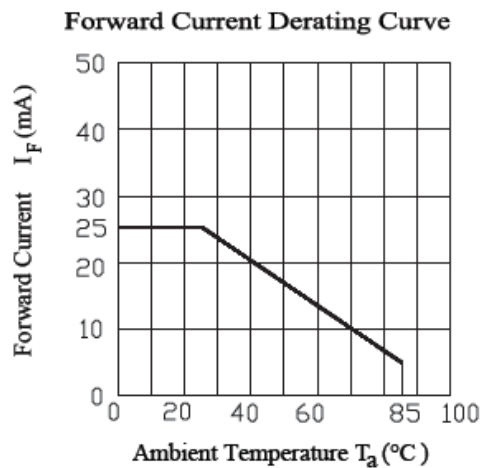
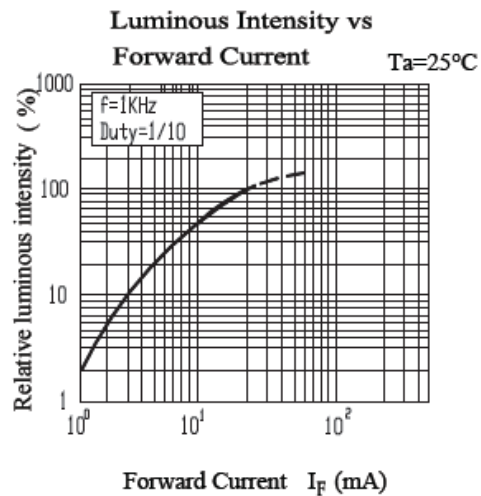
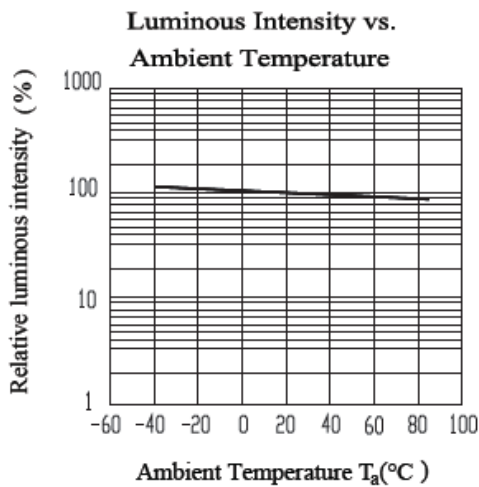
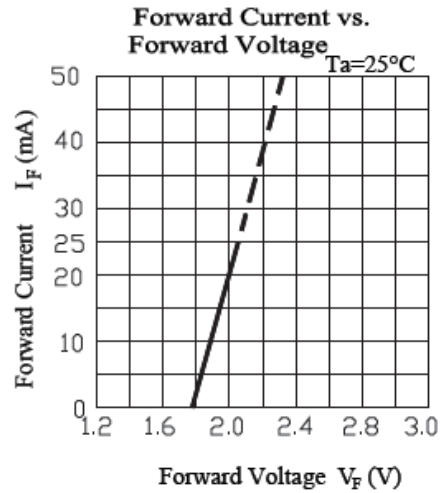
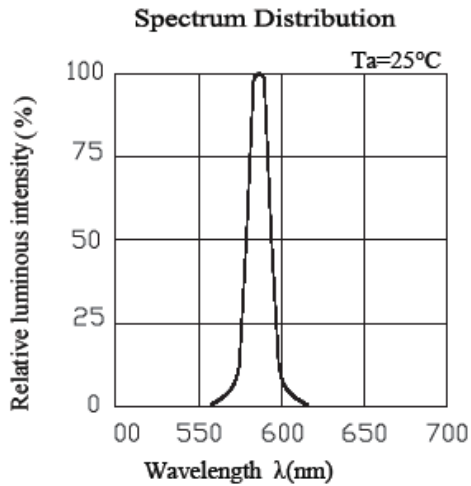
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OPTICAL CHARACTERISTIC CURVES - RED



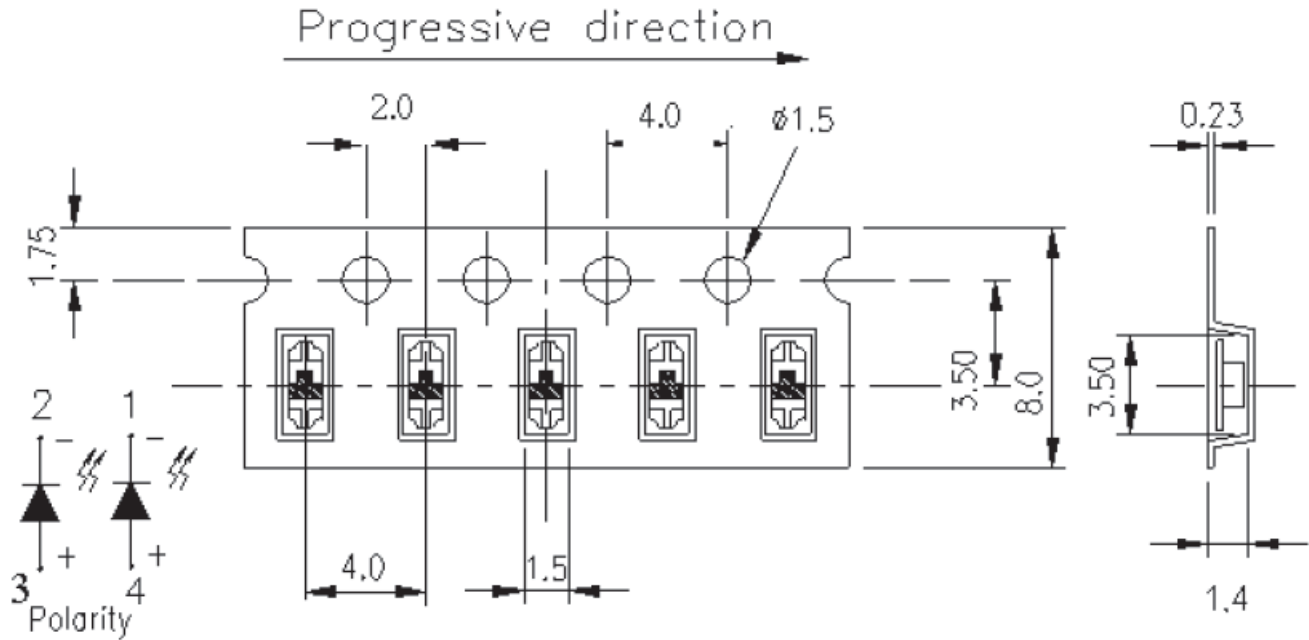
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OPTICAL CHARACTERISTIC CURVES - GREEN



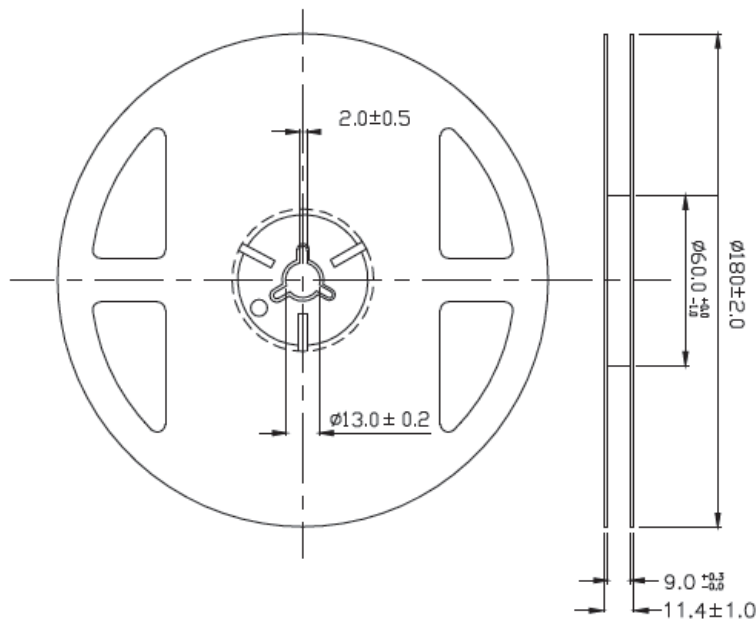
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PACKAGING SPECIFICATIONS



Note: The tolerances unless mentioned are $\pm 0.1\text{mm}$, Unit=mm

REEL DIMENSIONS



Note: 2000 pieces per reel.



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RECOMMENDED SOLDERING PROFILE

PRECAUTION FOR USE

1. Over-Current-Proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change & burn out will happen.

2. Storage

2.1 Do not open moisture proofs bag before the products are ready to use.

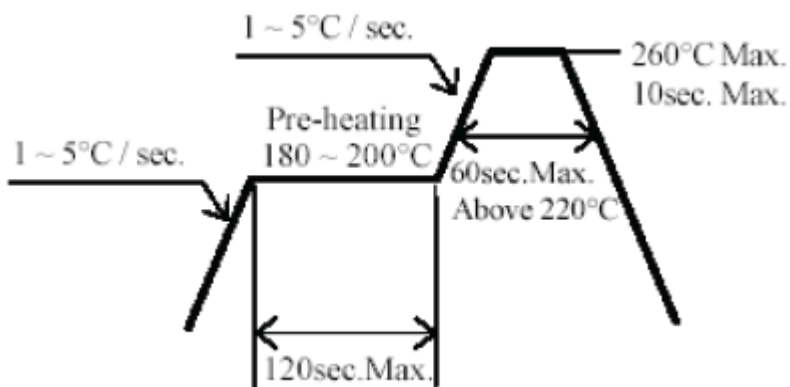
2.2 Before opening the package: the LEDs should be kept at 30 °C or less and 90%RH or less.

2.3 After opening the package: the LEDs floor life is 1 year under 30 °C or less and 60% RH or less. If unused LEDs remain, it should be stored in moisture proof packages.

2.4 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions: 60±5 °C for 24 hours.

3. Soldering Condition

3.1 Pb-Free soldering temperature profile



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