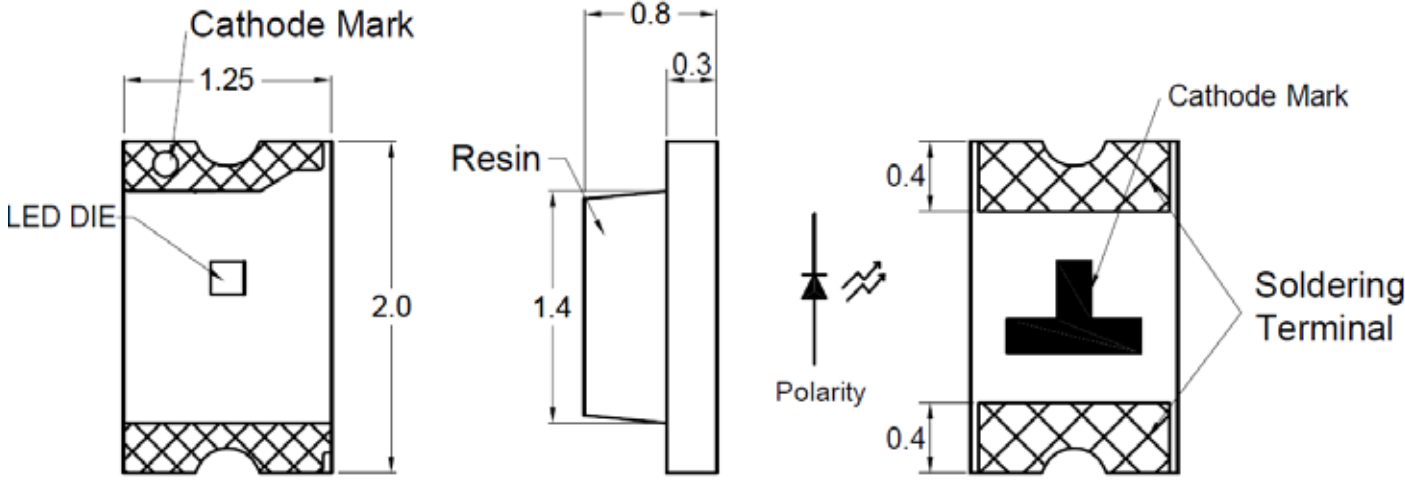
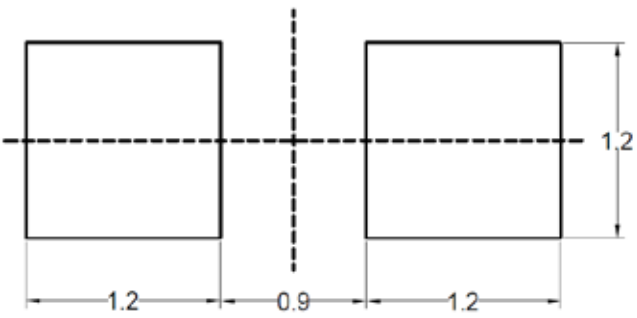


SPECIFICATIONS **CS85BRR1C**

PACKAGE DIMENSION



Recommended Solder Pad



Notes:
 1. All dimensions are in millimeters (inches);
 2. Tolerances are ± 0.1 mm unless otherwise noted.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS85BRR1C	GaAlAs	Red	Water Clear	140°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Value	Unit
Forward current	I _f	25	mA
Reverse current @ 5V	I _r	10	μA
Power dissipation	P _d	60	mW
Operating temperature range	T _{op}	-40~+85	°C
Storage temperature range	T _{stg}	-40~+90	°C
Peak pulsing current (1/10 duty f= 10KHz)	I _{fp}	100	mA
Soldering Temperature	T _{SOL}	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

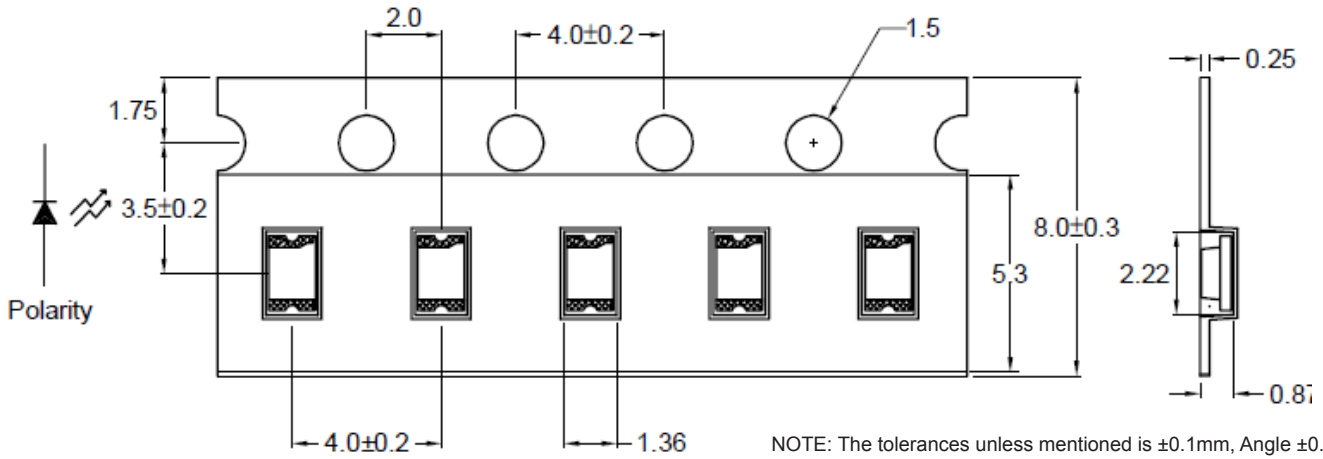
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Wavelength at peak emission	λ _{peak}	I _F = 20mA	-	660	-	nm
Spectral half bandwidth	Δλ	I _F = 20mA	-	20	-	nm
Dominant wavelength	λ _{dom}	I _F = 20mA	-	643	-	nm
Forward Voltage	V _f	I _F = 20mA	1.5	-	2.4	V
Luminous intensity	I _v	I _F = 20mA	8.0	20	-	mcd
Viewing angle at 50% I _v	2Θ ½	I _F = 20mA	-	140	-	Deg

*NOTE: 1. The forward voltage data did not including ±0.1V tolerance 2. The luminous intensity data did not including ±15% tolerance

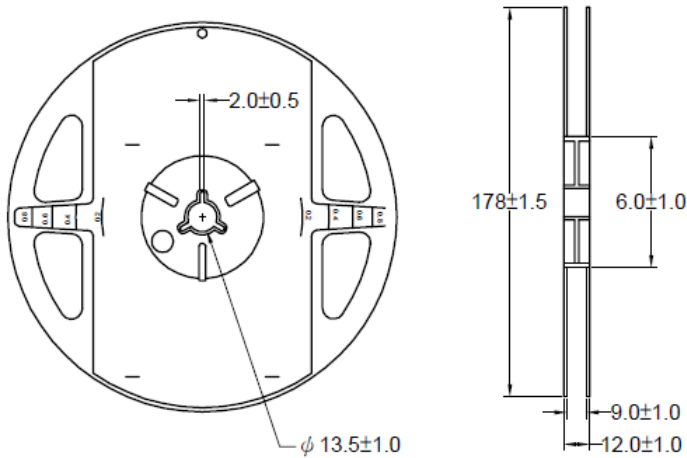


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DIMENSIONS OF TAPE (Unit: mm)

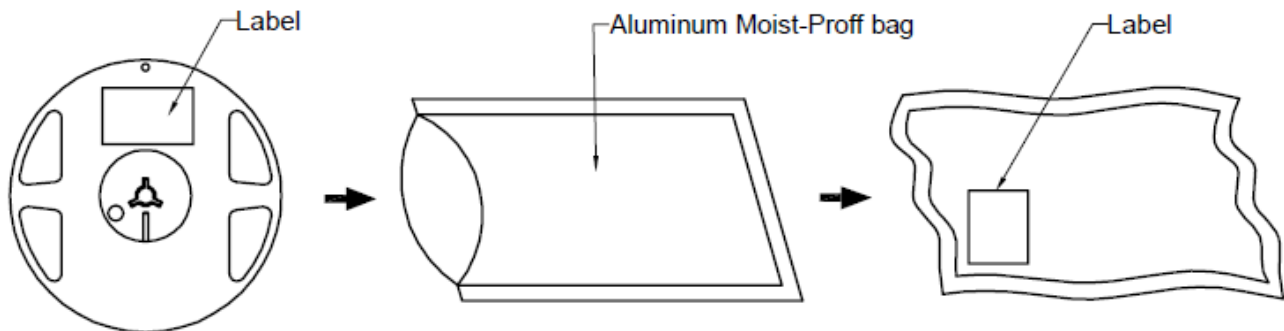


REEL DIMENSIONS



- NOTES:
1. Empty component pockets are sealed with top cover tape;
 2. The maximum number of missing lamps is two;
 3. The cathode is oriented towards the tape sprocket hole.
 4. 4,000pcs/Reel

PACKAGING SPECIFICATION



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OPTICAL CHARACTERISTIC CURVES

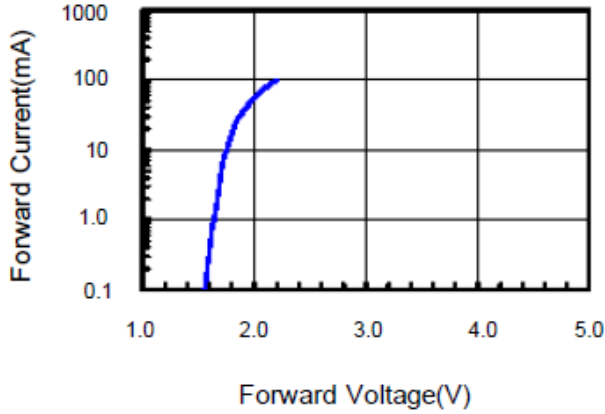


Fig.3 Forward Voltage vs. Temperature

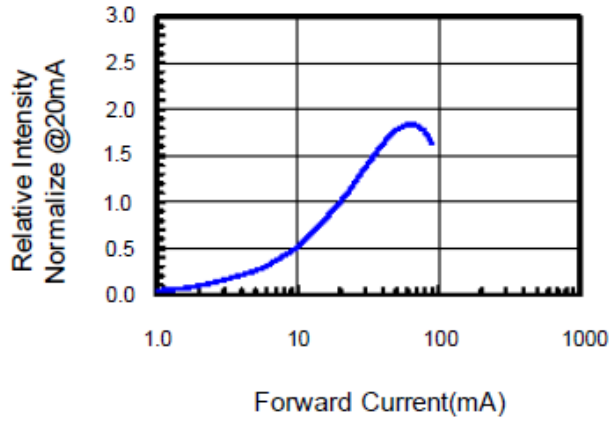


Fig.4 Relative Intensity vs. Temperature

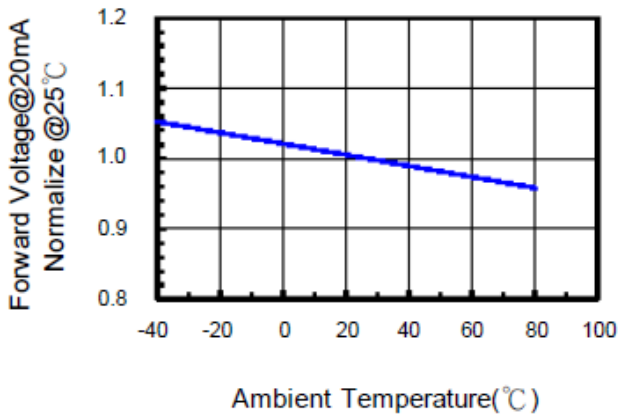


Fig.5 Relative Intensity vs. Wavelength

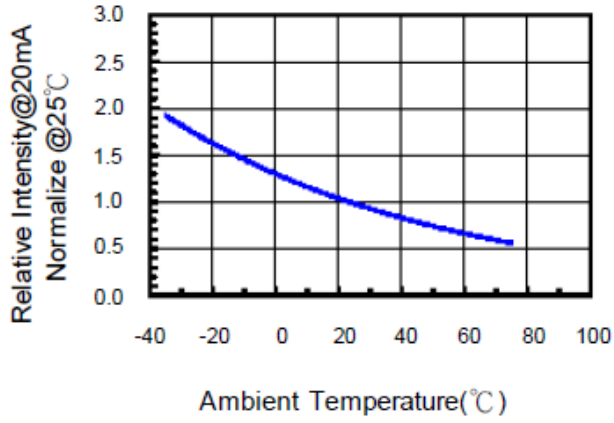
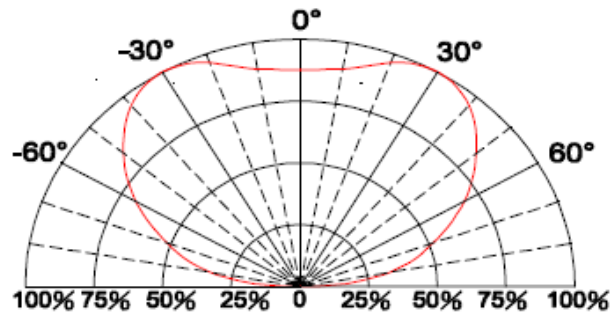
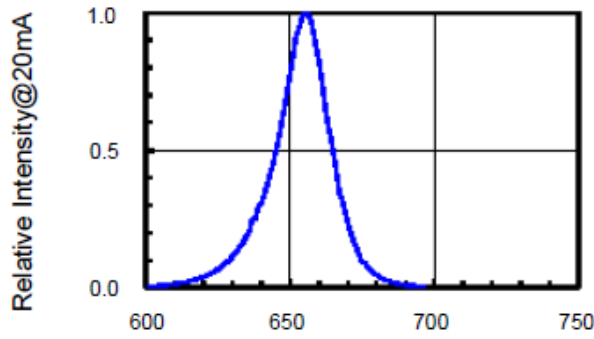


Fig.6 Directive Radiation



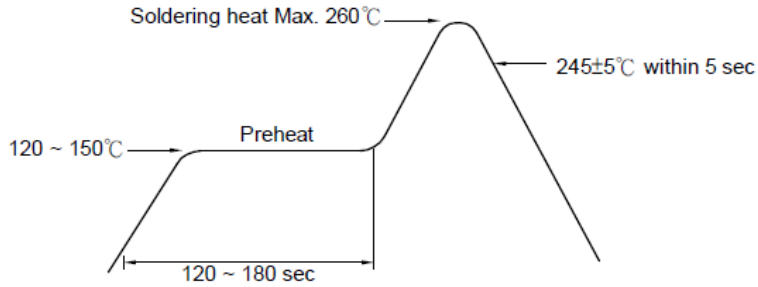
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SOLDERING CONDITIONS – LAMP TYPE LED

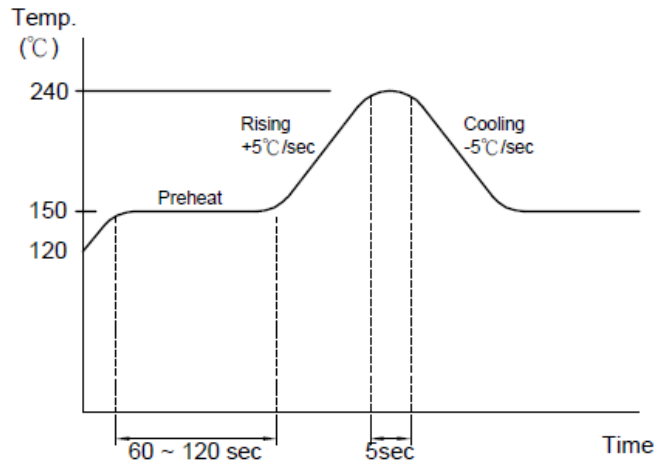
1. Hand Solder

Basic spec is $\leq 280^{\circ}\text{C}$ 3 sec one time only.

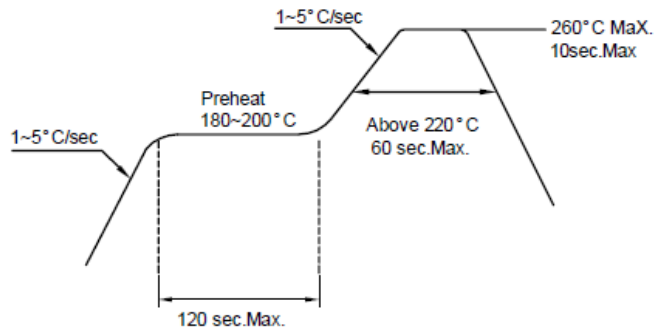
2. Wave Solder



3-1. LEAD Reflow Solder



3-2 PB-Free Reflow Solder



Reflow Soldering should not be done more than two times.



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