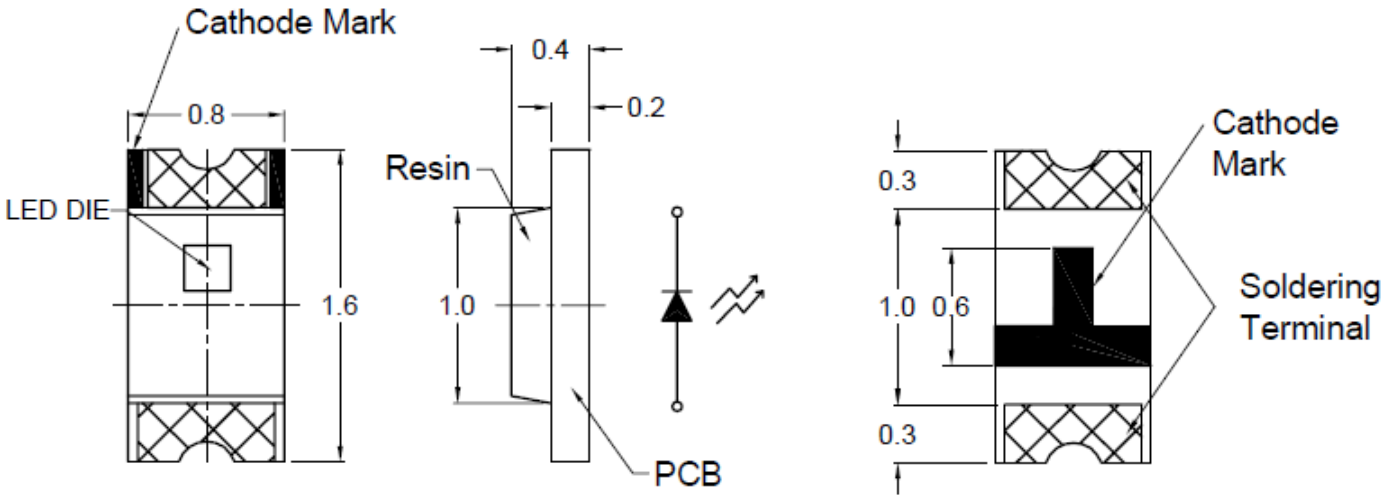
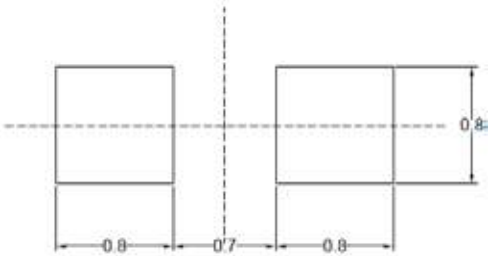
SPECIFICATIONS CS63CY1C

PACKAGE OUTLINES



Recommended Pad Layout



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

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS63CY1C	GaAsP/GaP	Super Yellow	Water Clear	150°

RoHS Compliant Lead Free

ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Value	Unit
Forward current	If	25	mA
Reverse current @ 5V	Ir	10	μA
Power dissipation	Pd	65	mW
Operating temperature range	Top	-40~+85	°C
Storage temperature range	Tstg	-40~+90	°C
Peak pulsing current (1/10 duty f= 10KHz)	Ifp	80	mA
Electrostatic Discharge	ESD	2000	V
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	λpeak	I_F = 20mA	-	585	-	nm
Spectral half bandwidth	△λ	I_F = 20mA	-	35	-	nm
Dominant wavelength	λdom	I_F = 20mA	-	588	-	nm
Forward Voltage	Vf	I_F = 20mA	1.7	-	2.6	V
Luminous intensity	Iv	I_F = 20mA	2.0	5.0	-	mcd
Viewing angle at 50% Iv	2Θ ½	I_F = 20mA	-	150	-	Deg

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

RoHS Compliant Lead Free

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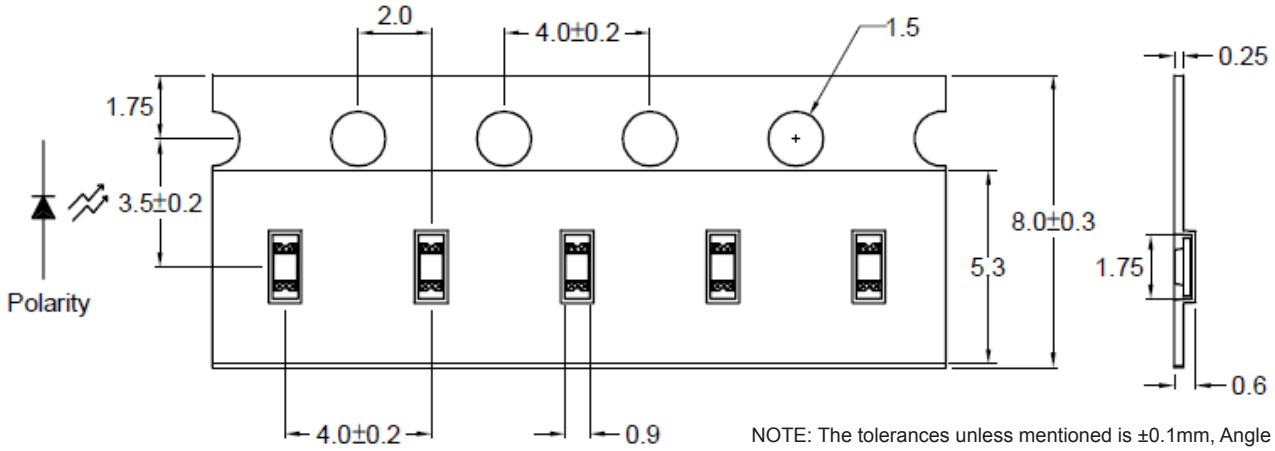
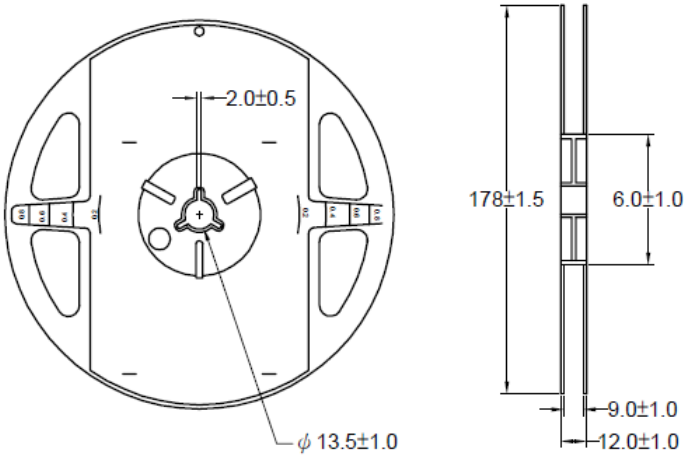
DIMENSIONS OF TAPE (Unit: mm)



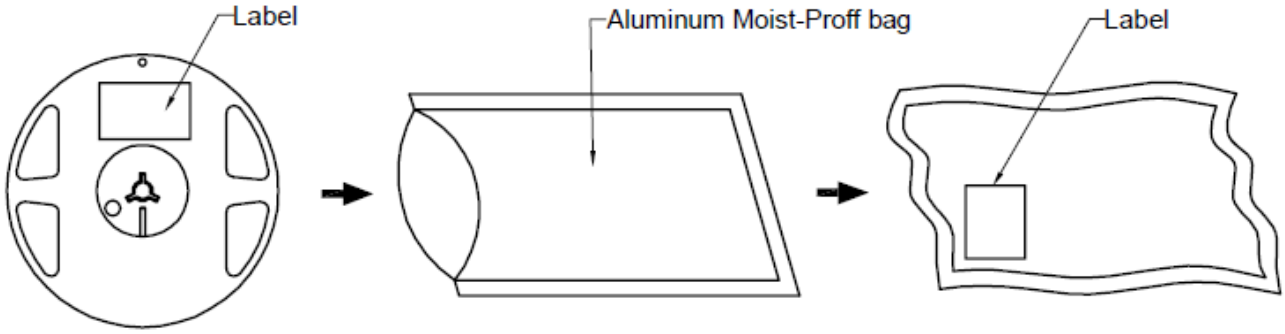
NOTE: The tolerances unless mentioned is ±0.1mm, Angle ±0.5. Unit = mm.

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



OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

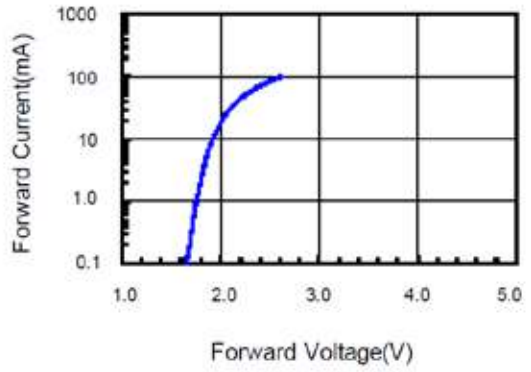


Fig.2 Relative Intensity vs. Forward Current

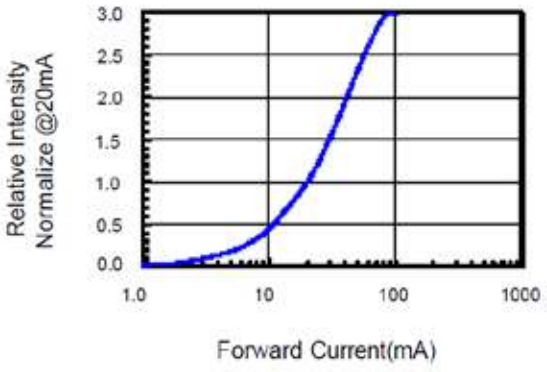


Fig.3 Forward Voltage vs. Temperature

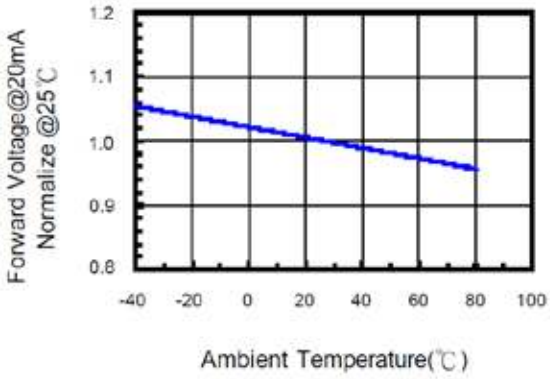


Fig.4 Relative Intensity vs. Temperature

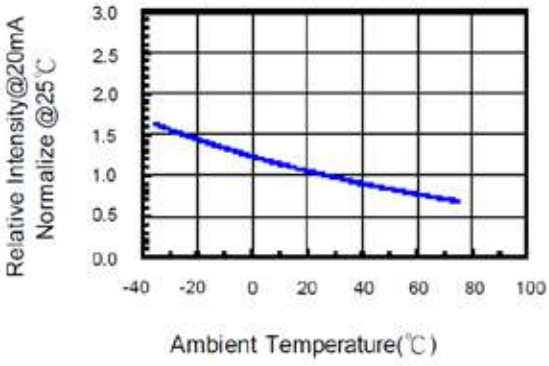


Fig.5 Relative Intensity vs. Wavelength

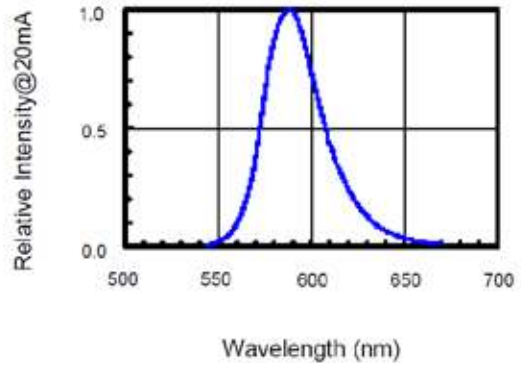
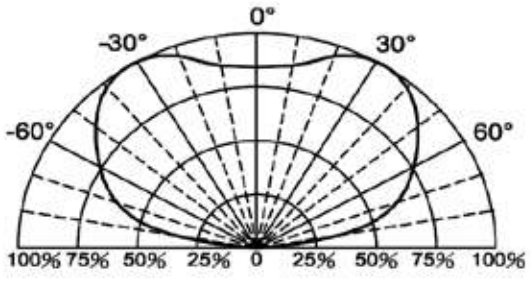


Fig.6 Directive Radiation

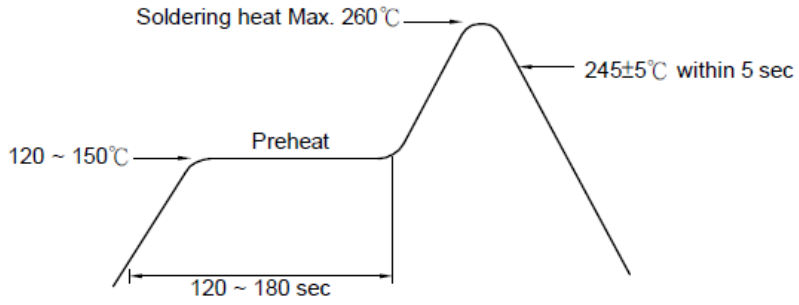


SOLDERING CONDITIONS – LAMP TYPE LED

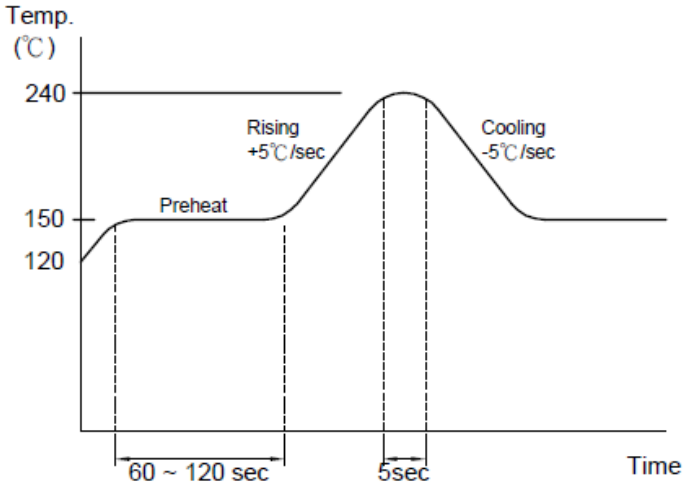
1. Hand Solder

Basic spec is ≦ 280℃ 3 sec one time only.

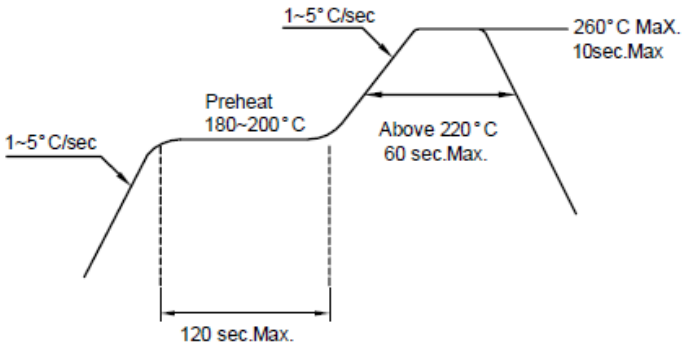
2. Wave Solder



3-1. LEAD Reflow Solder



3-2 PB-Free Reflow Solder



Reflow Soldering should not be done more than two times.