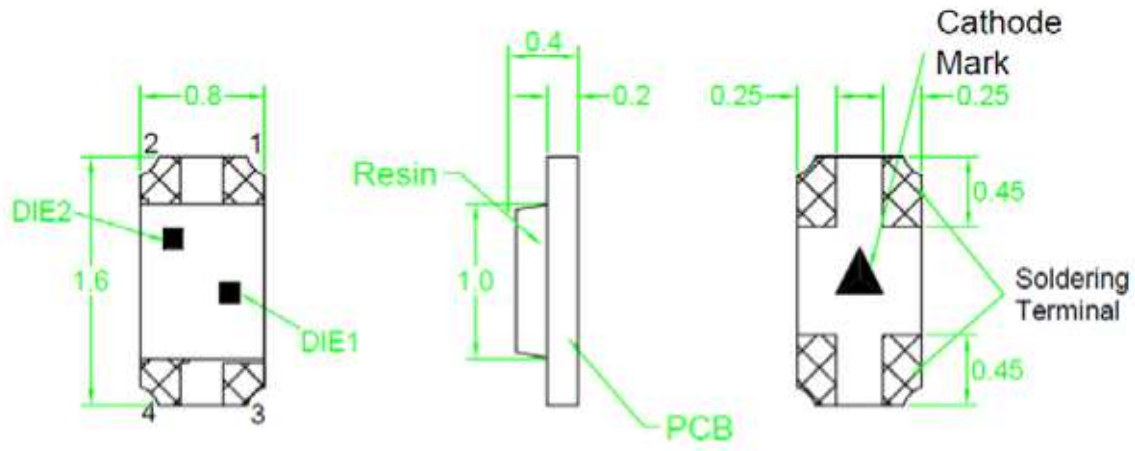
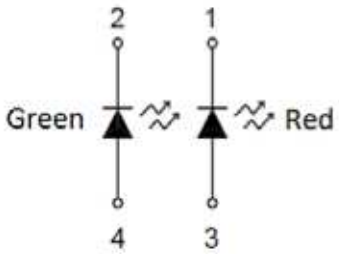
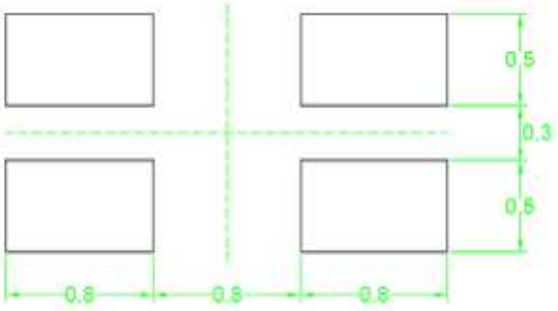
SPECIFICATION CSB63CR2G2C

PACKAGE OUTLINES





RECOMMEND PAD LAYOUT



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25mm (0.01”) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSB63CR2G2C	InGaAlP	Red	Water Clear	130°
	InGaAlP	Green	Water Clear	130°

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ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I_F	30	mA
Reverse Current @ 5V	I_R	10	μA
Power Dissipation	Pd	75	mW
Operating Temperature Range	T_{OP}	-40~+85	°C
Storage Temperature Range	T_{STG}	-40~+85	°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	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	I_V	I_F = 20mA	R	20	50	-	mcd
			G	20	40		
Forward Voltage	V_F	I_F = 20mA	R	-	2.0	2.4	V
			R	-	2.0	2.6	
Viewing Angle at 50% Iv	2θ1/2	I_F = 20mA	-	-	130	-	Deg
Peak Wavelength	λ_P	I_F = 20mA	R	-	642	-	nm
			G		575		
Dominant Wavelength	λ_D	I_F = 20mA	R	-	630	-	nm
			G		574		

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

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OPTICAL CHARACTERISTIC CURVES - RED

Fig.1 Forward current vs. Forward Voltage

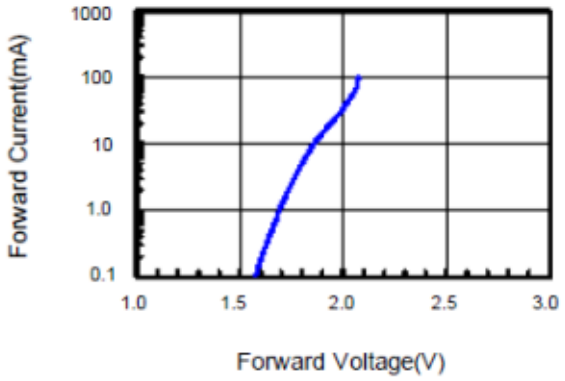


Fig.2 Relative Intensity vs. Forward Current

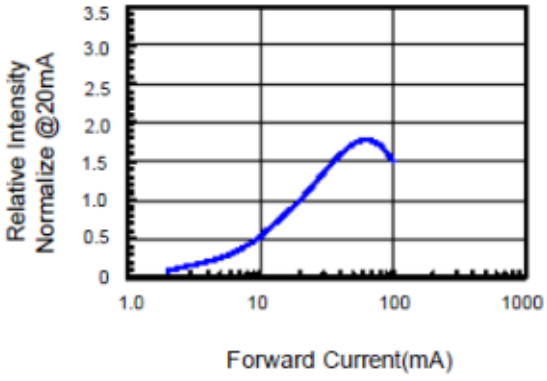


Fig.3 Forward Voltage vs. Temperature

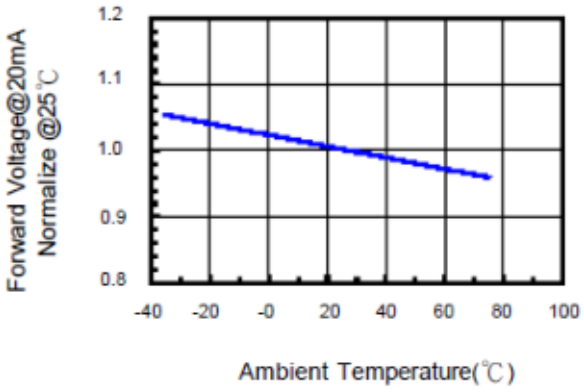


Fig.4 Relative Intensity vs. Temperature

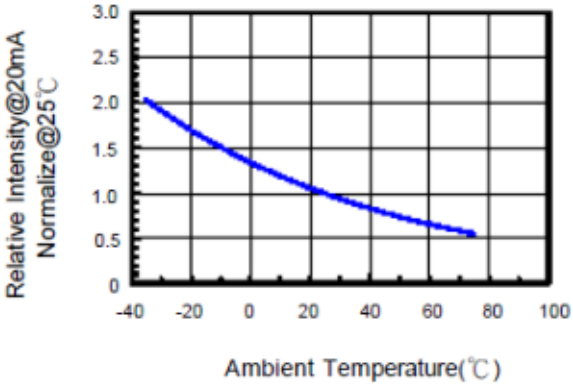


Fig.5 Relative Intensity vs. Wavelength

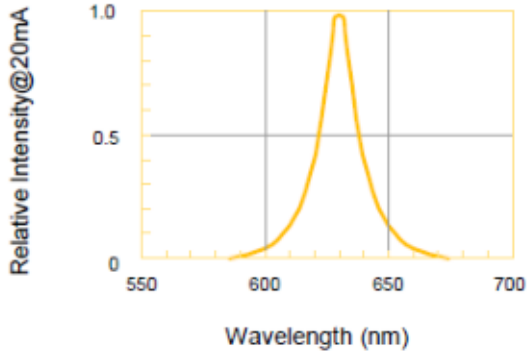
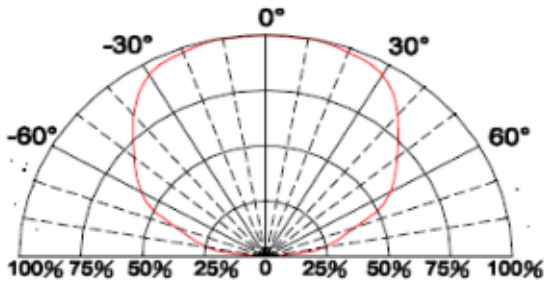


Fig.6 Directive Radiation



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OPTICAL CHARACTERISTIC CURVES - GREEN

Fig.1 Forward current vs. Forward Voltage

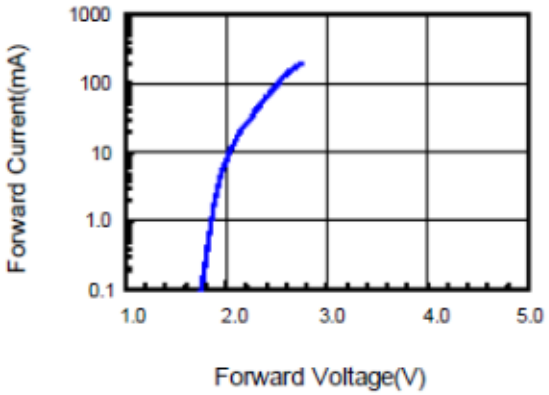


Fig.2 Relative Intensity vs. Forward Current

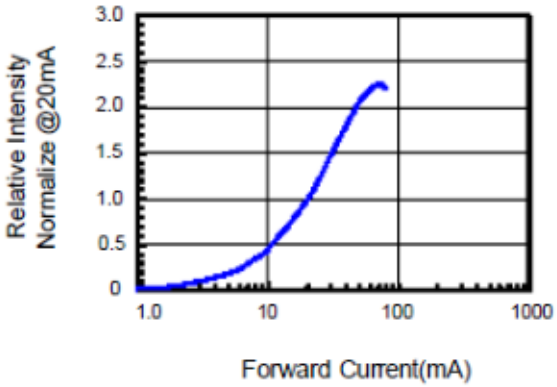


Fig.3 Forward Voltage vs. Temperature

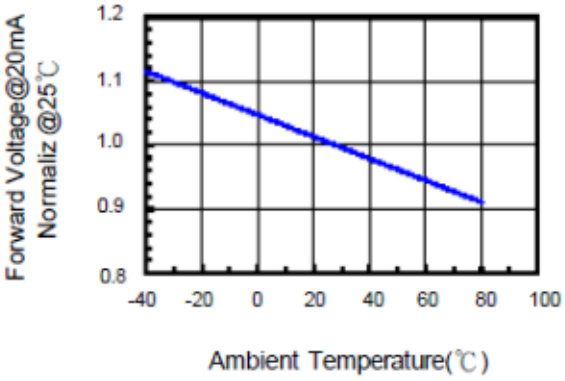


Fig.4 Relative Intensity vs. Temperature

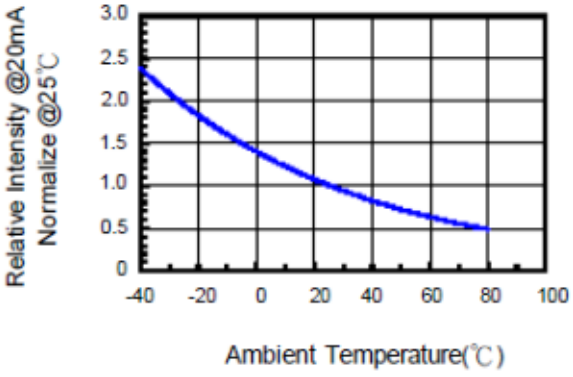


Fig.5 Relative Intensity vs. Wavelength

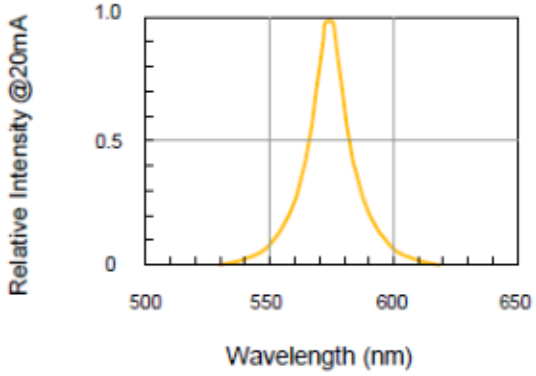
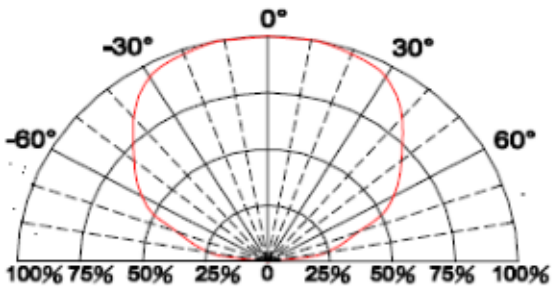


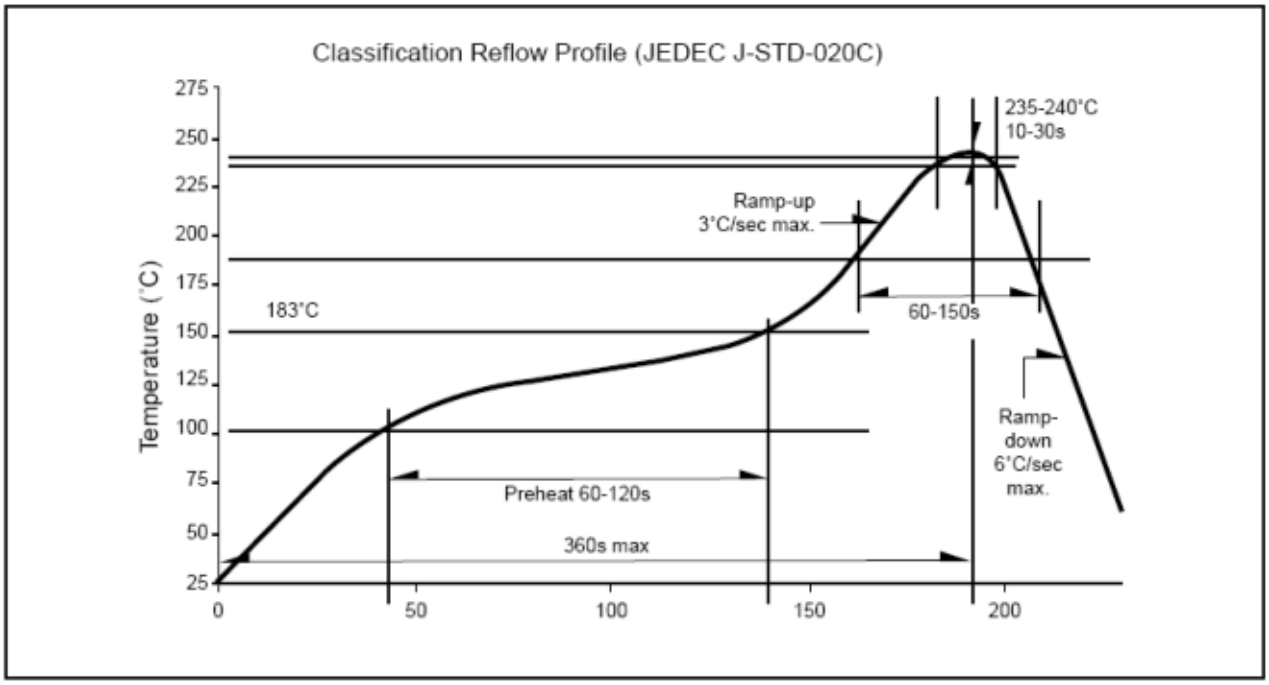
Fig.6 Directive Radiation



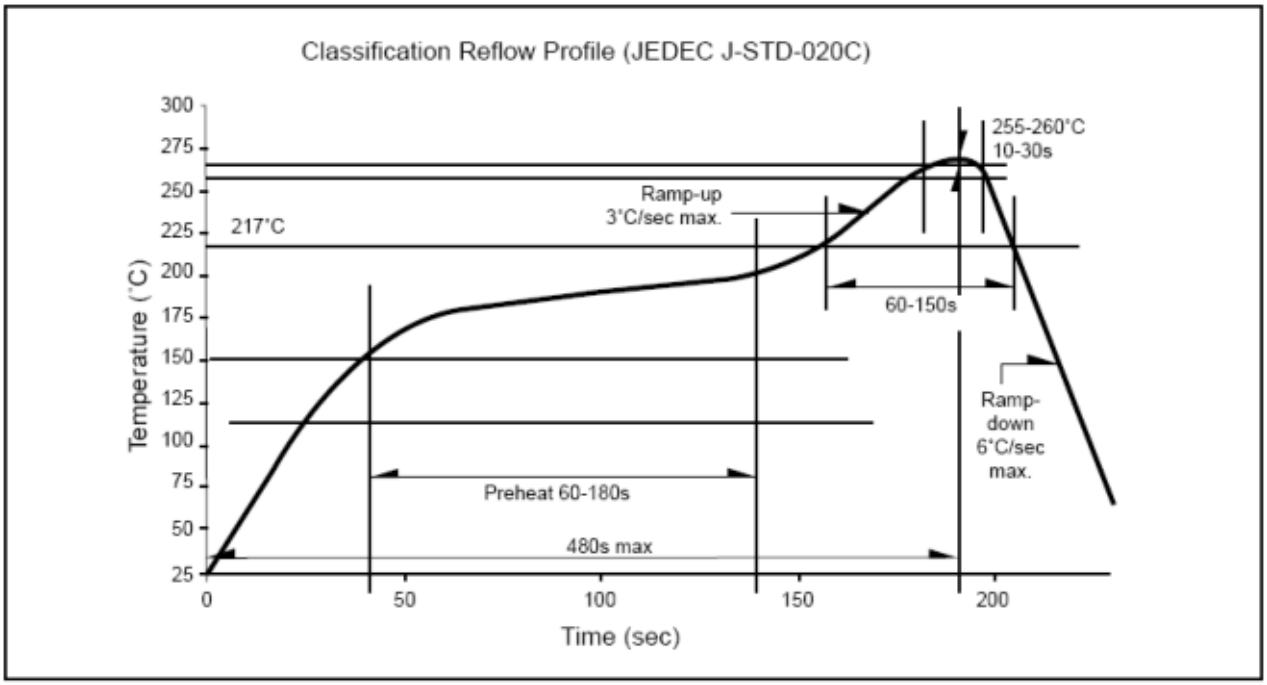
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SOLDERING CONDITIONS

RECOMMENDED Sn-PB IR-Reflow Soldering Profile



RECOMMENDED Pb-Free Soldering Profile

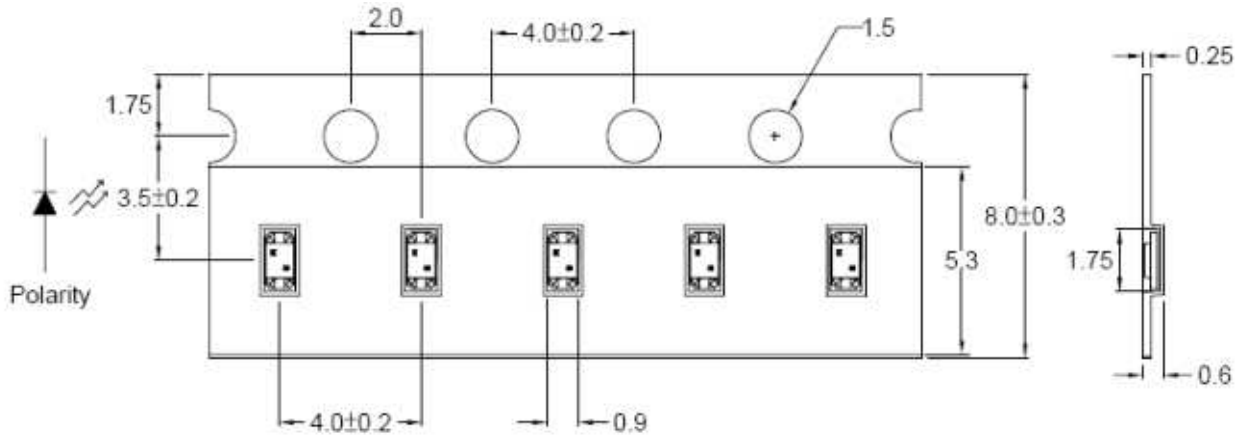


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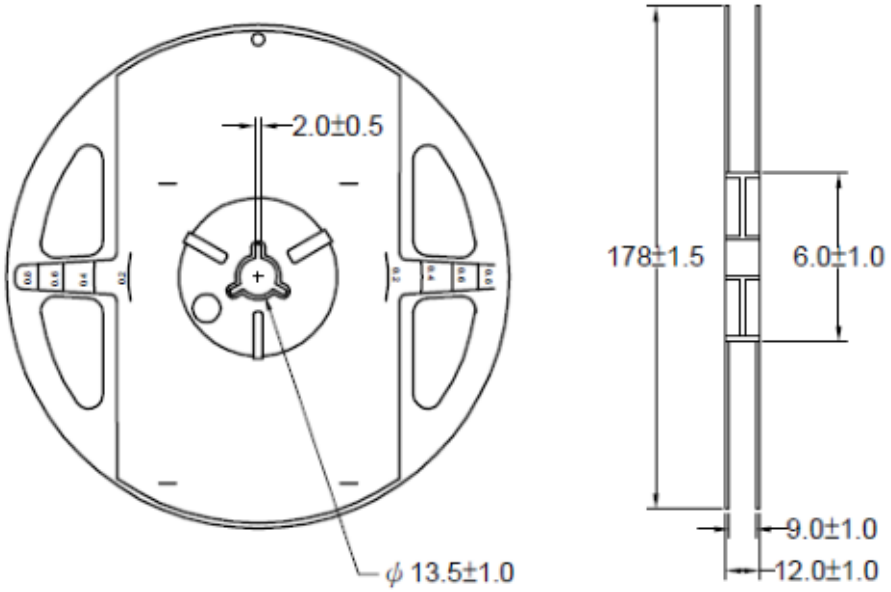
REEL PACKAGING

CARRIER TAPE DIMENSION



Note: The tolerances unless mentioned are ±0.1mm, Angle ±0.5; Unit=mm

REEL DIMENSIONS



Notes:

1. 4000 pieces per reel.

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