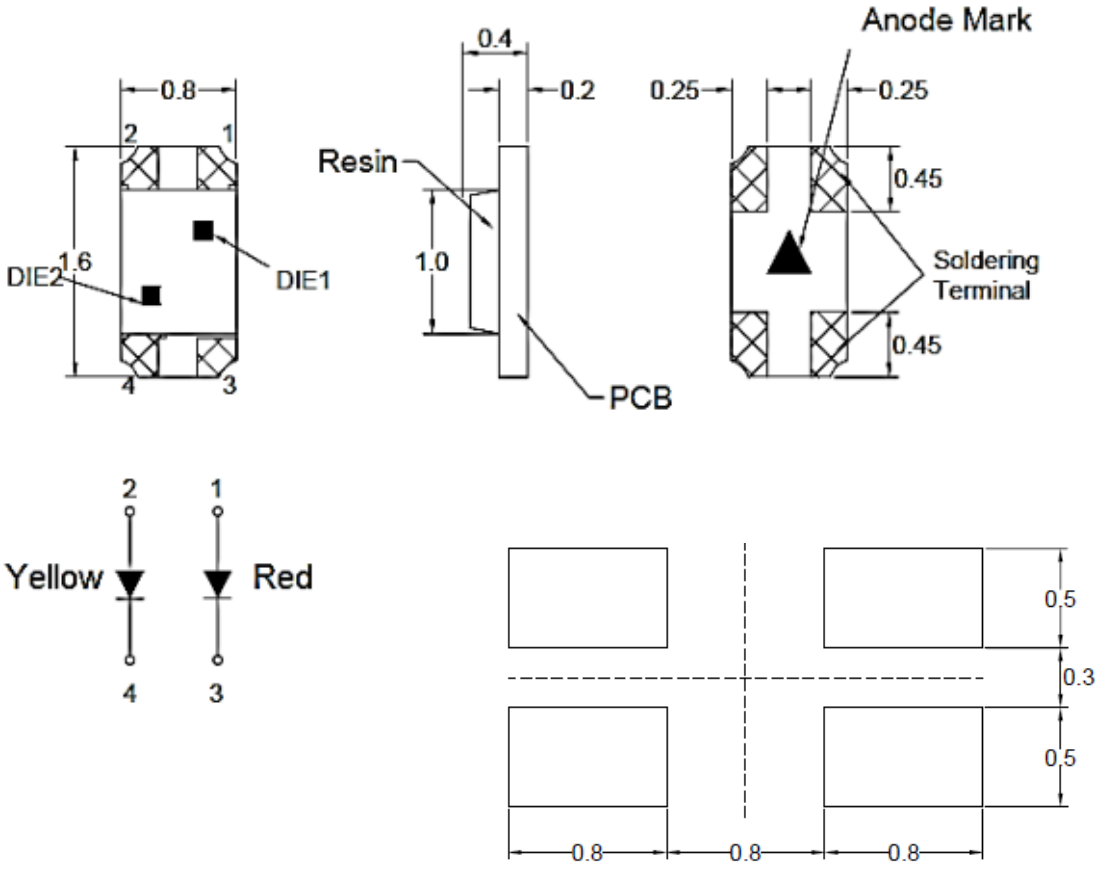
SPECIFICATIONS CSB63CR2Y2C

OUTLINES DIMENSIONS



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
CSB63CR2Y2C	InGaAlP	Red/Yellow	Water Clear	130°

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ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Color	Max Rating	Unit
Power Dissipation	P_D	Red	78	mW
		Yellow		
Pulse Current Forward Current	I_{FP}	Red	60	mA
		Yellow		
Continuous Forward Current	I_F	Red	30	mA
		Yellow		
Reverse Voltage	V_R	5		V
Operating Temperature Range	T_{OPR}	-40~+85		°C
Storage Temperature Range	T_{STG}	-40~+90		°C
I_{FP} = Pulse Width ≤ 10 ms, Duty Ratio ≤1/8. Soldering Condition: 260 °C/ 5sec				

OPTICAL-ELECTRICAL CHARACTERISTICS (TA=25°C)

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	Iv	I_F = 20mA	Red	200	350	-	mcd
			Yellow	200	350	-	
Forward Voltage	V_F	I_F = 20mA	Red	-	2.0	2.6	V
			Yellow	-	2.0	2.6	
Reverse Leakage Current	I_R	V_R = 5V	Red	-	-	10	μA
			Yellow	-	-	10	
Viewing Angle	2θ1/2	I_F = 10mA	Red	-	130	-	deg
			Yellow	-	130	-	
Dominant Wavelength	λ_D	I_F = 20mA	Red	621	-	630	nm
			Yellow	585	-	595	

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

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OPTICAL CHARACTERISTIC CURVES (RED)

Fig.1 Forward current vs. Forward Voltage

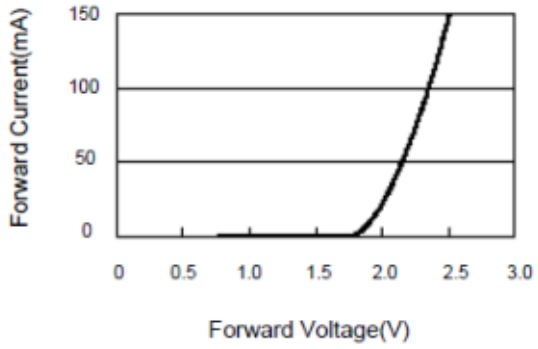


Fig.2 Luminous Intensity vs. Forward Current

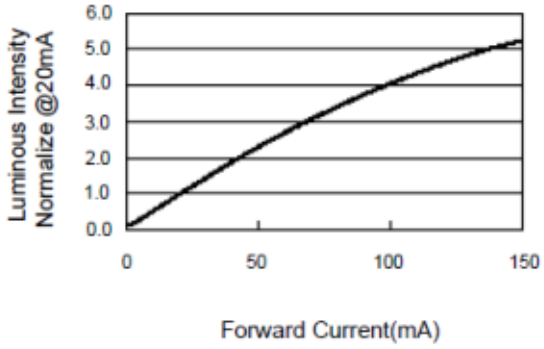


Fig.3 Forward Voltage vs. Temperature

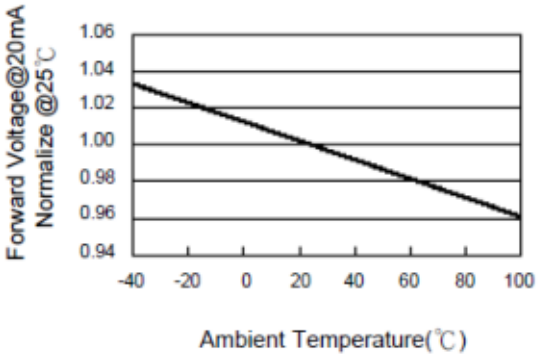


Fig.4 Luminous Intensity vs. Temperature

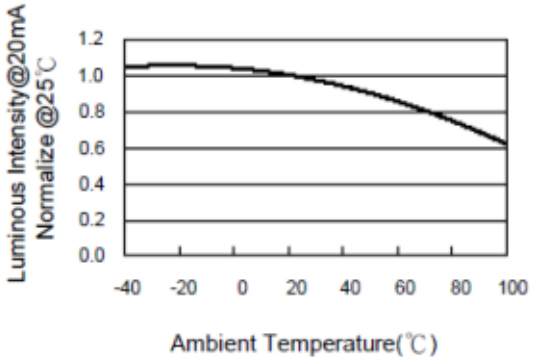


Fig.5 Relative Intensity vs. Wavelength

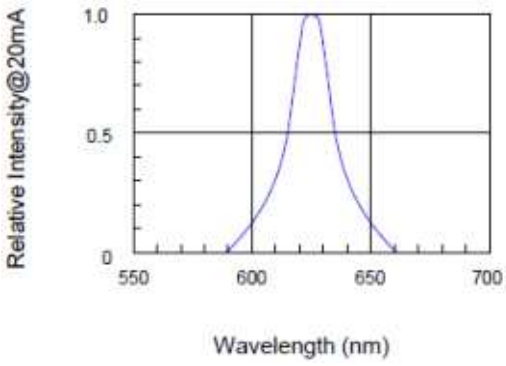
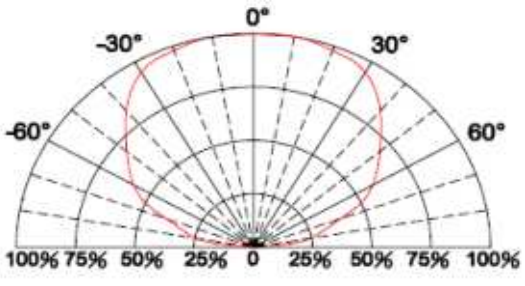


Fig.6 Directive Radiation



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OPTICAL CHARACTERISTIC CURVES (YELLOW)

Fig.1 Forward current vs. Forward Voltage

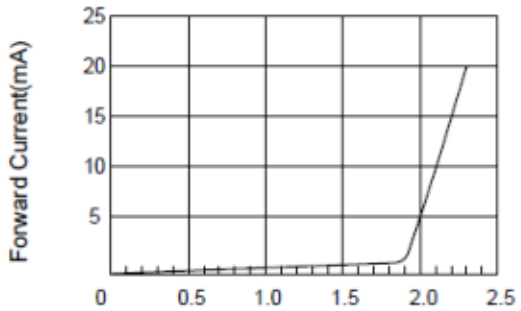


Fig.2 Relative Intensity vs. Forward Current

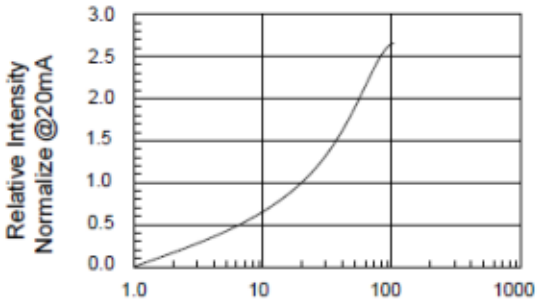


Fig.3 Forward Voltage vs. Temperature

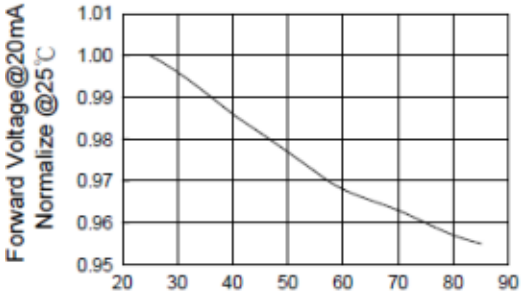


Fig.4 Relative Intensity vs. Temperature

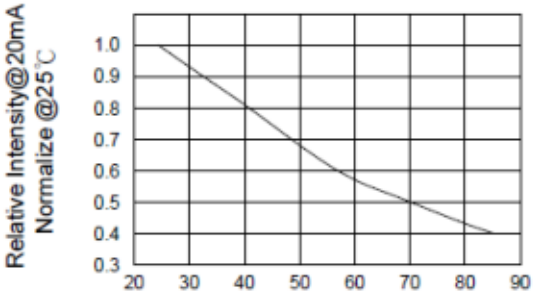


Fig.5 Relative Intensity vs. Wavelength

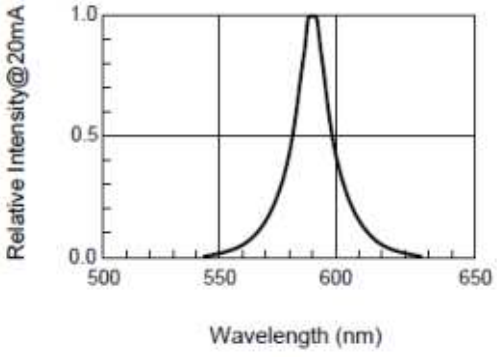
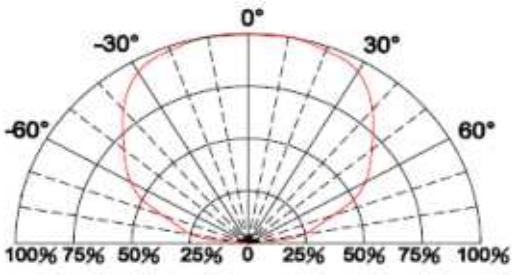


Fig.6 Directive Radiation



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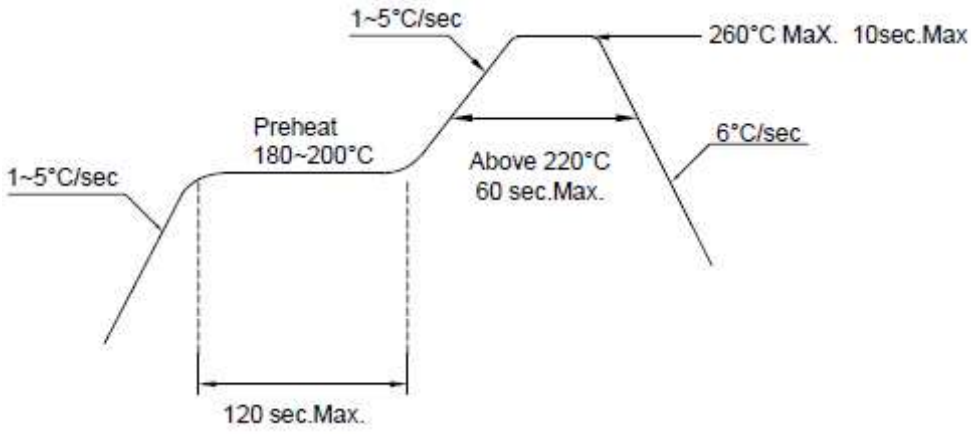
SOLDERING CONDITIONS

RECOMMENDED SOLDERING CONDITIONS

1. Hand Solder

   Basic spec is ≤ 280°C 3 sec one time only.

3. PB-Free Reflow Solder



Notes:

1. Reflow soldering should not be done more than two times.
2. When soldering, do not put stress on the LEDs during heating.
3. After soldering, do not warp the circuit board.

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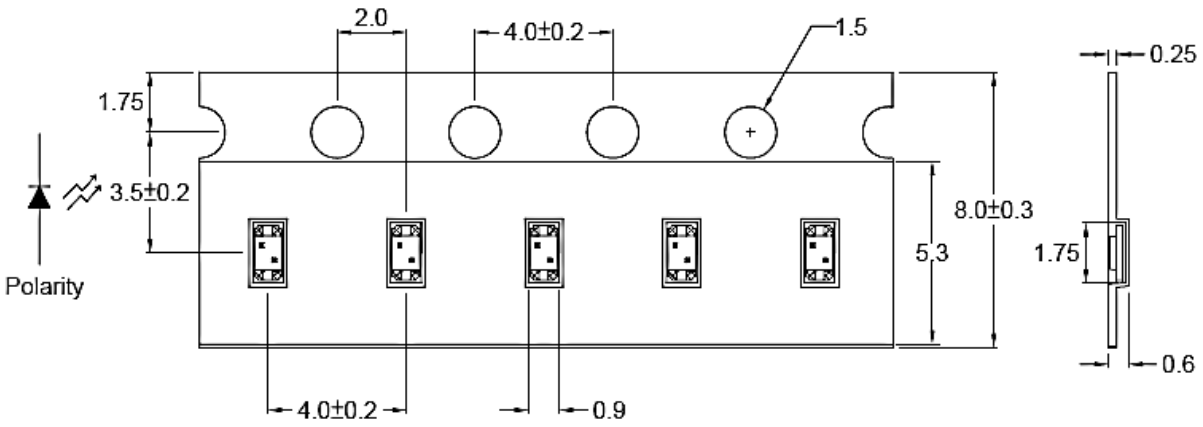
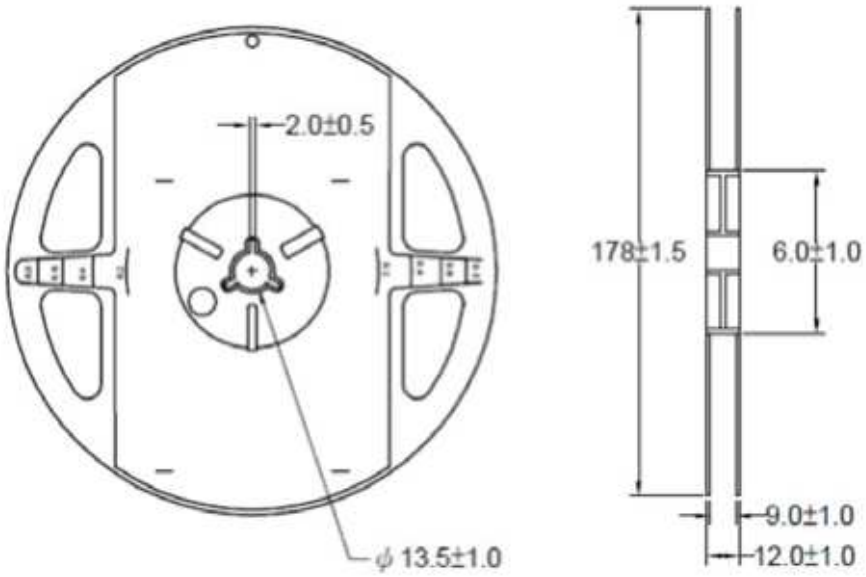
PACKAGING SPECIFICATIONS

CARRIER TAPE DIMENSION



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

REEL DIMENSIONS



Notes:

1. 4,000 pieces per reel.
2. 8.0mm tape, 7” reel

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