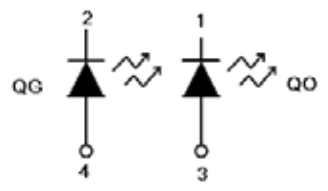
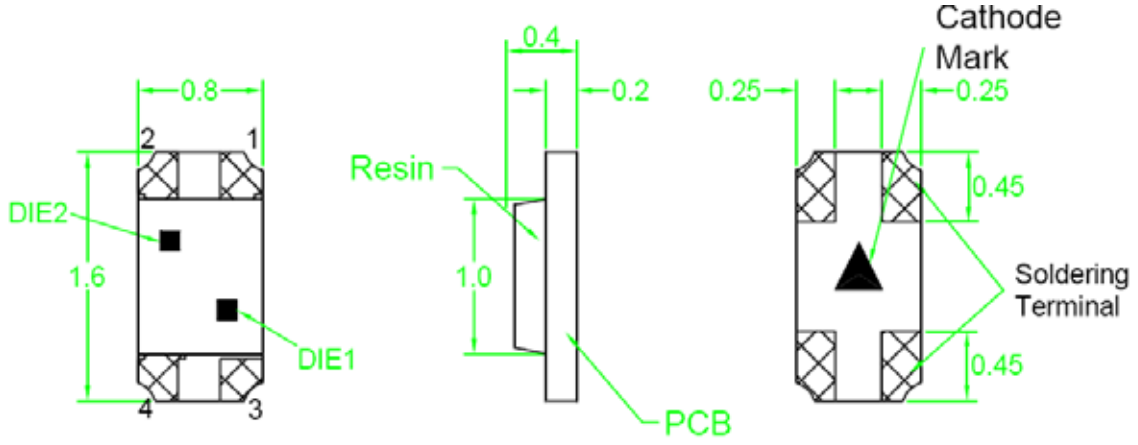
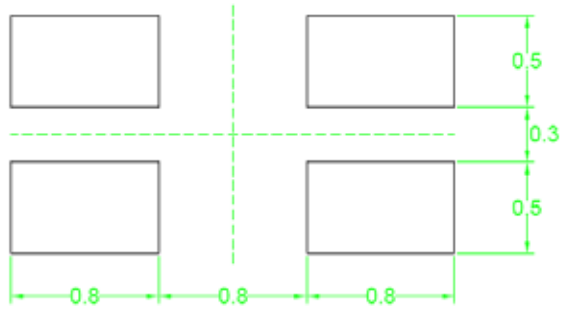


SPECIFICATION CSB63CA2G2C

PACKAGE OUTLINES



RECOMMEND 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
CSB63CA2G2C	InGaAlP	Orange	Water Clear	120°
	InGaAlP	Green	Water Clear	120°



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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	P _d	78	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}	60	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	G	30	60	-	mcd
			O	80	220		
Forward Voltage	V _F	I _F = 20mA	G	1.7	2.2	2.6	V
			O	1.7	2.2	2.4	
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 20mA	-	-	120	-	Deg
Peak Wavelength	λ _P	I _F = 20mA	G	-	575	-	nm
			O		610		
Dominant Wavelength	λ _D	I _F = 20mA	G	-	574	-	nm
			O		605		

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



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OPTICAL CHARACTERISTIC CURVES - GREEN

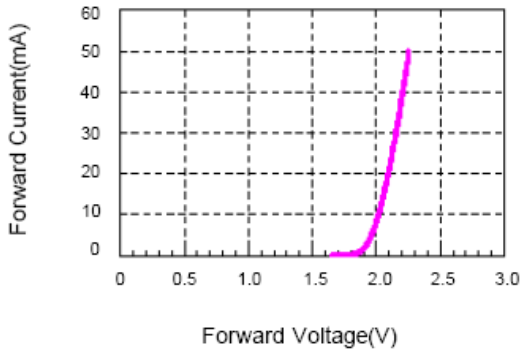


Fig.3 Forward Voltage vs. Temperature

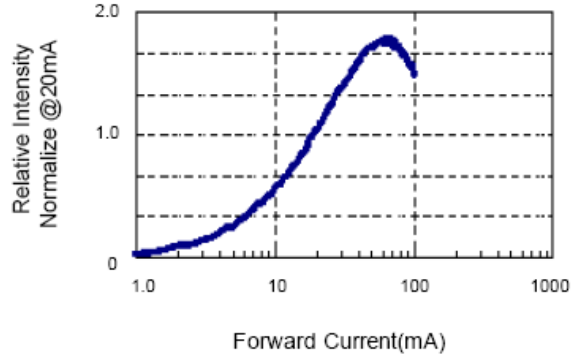


Fig.4 Relative Intensity vs. Temperature

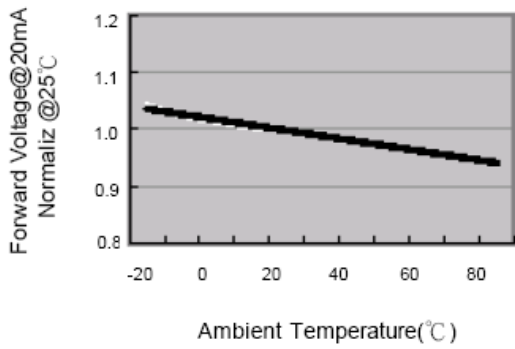


Fig.5 Relative Intensity vs. Wavelength

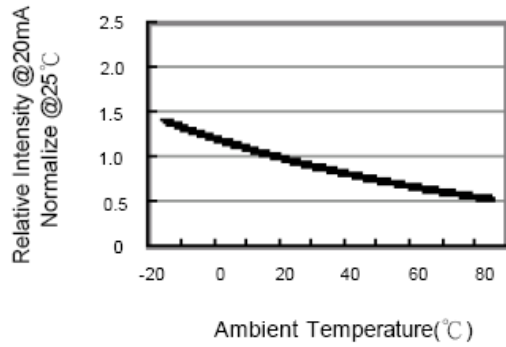
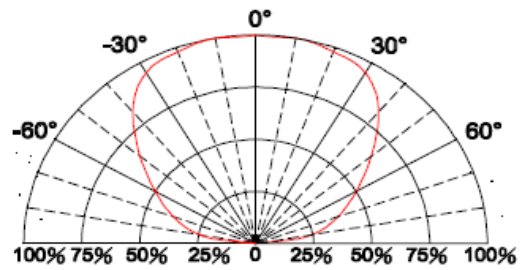
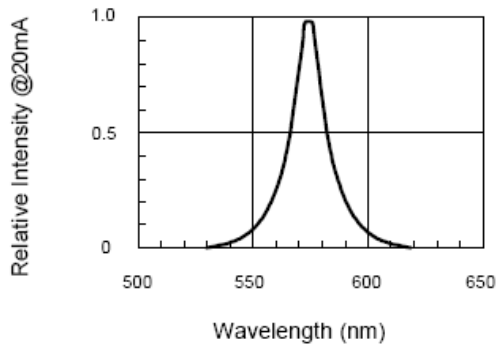


Fig.6 Directive Radiation



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OPTICAL CHARACTERISTIC CURVES - ORANGE

Fig.1 Forward current vs. Forward Voltage

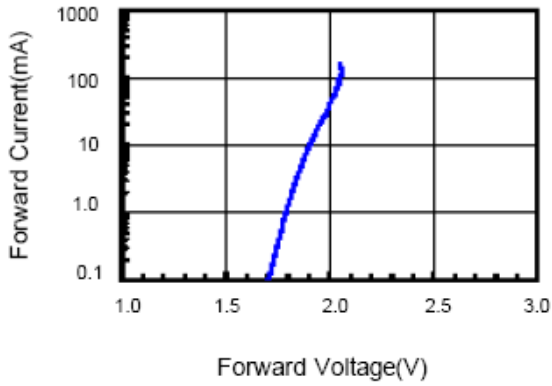


Fig.2 Relative Intensity vs. Forward Current

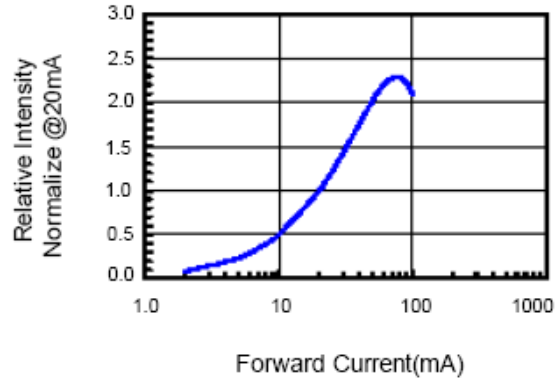


Fig.3 Forward Voltage vs. Temperature

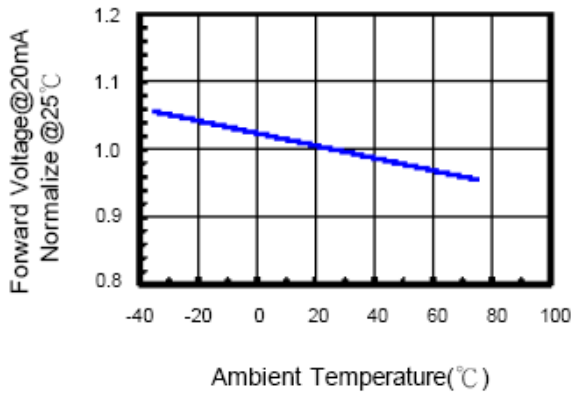


Fig.4 Relative Intensity vs. Temperature

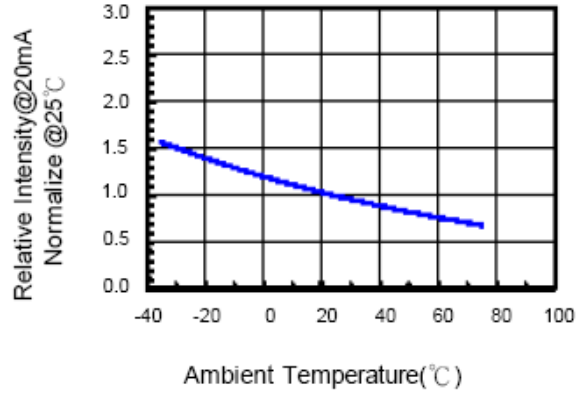


Fig.5 Relative Intensity vs. Wavelength

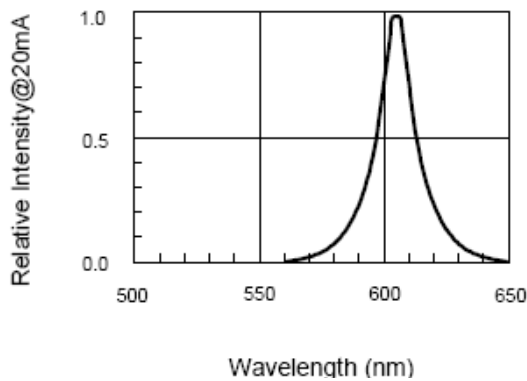
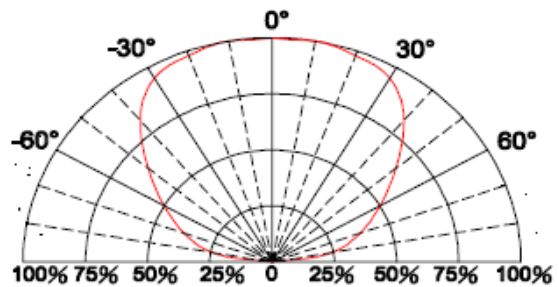


Fig.6 Directive Radiation



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SOLDERING CONDITIONS

RECOMMENDED Sn-PB IR-Reflow Soldering Profile



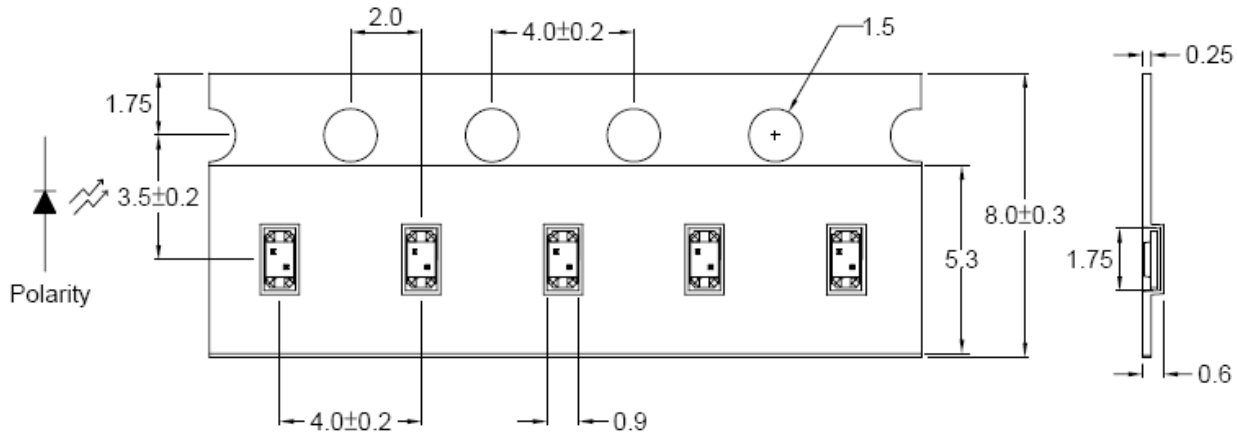
RECOMMENDED Pb-Free Soldering Profile



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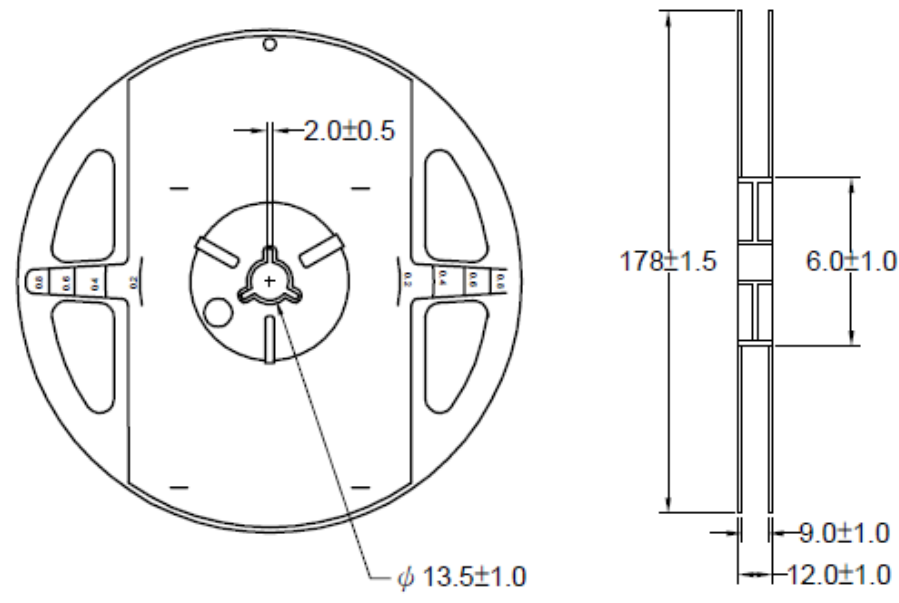
REEL PACKAGING

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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