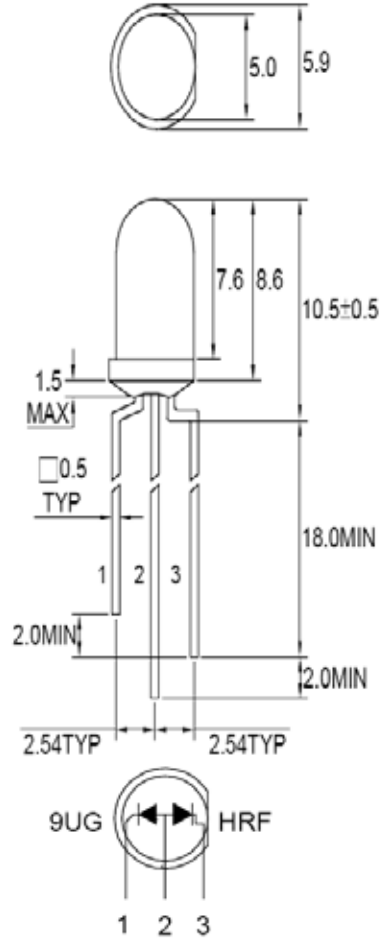


SPECIFICATION
CLB50R2G2WCA
PACKAGE OUTLINES
Description

- *Round Type Dual Color
- *T1-3/4 (5mm) Diameter
- *Lens Color: White Diffused
- *With Flange

Features

- *Emitting Color: Red/Green
- *High Luminous Intensity
- *Technology: InGaAlP
- *Peak Wavelength = 630nm/574nm


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.

1. CATHODE GREEN
2. COMMON ANODE
3. CATHODE RED

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CLB50R2G2WCA	InGaAlP	Red	White Diffused	76°
	InGaAlP	Green		



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating		Unit
		Red	Green	
Forward Current	I _F	30	60	mA
Reverse Current @ 5V	I _R	10		μA
Power Dissipation	P _d	75		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}	90	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	R	28	50	-	mcd
			G	12	21		
Forward Voltage	V _F	I _F = 20mA	R	1.5	2.2	2.4	V
			G	1.7	2.3	2.6	
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 20mA	-	-	76	-	Deg
Peak Wavelength	λ _P	I _F = 20mA	R	-	635	-	nm
			G		575		
Dominant Wavelength	λ _D	I _F = 20mA	R	-	630	-	nm
			G		570		

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



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OPTICAL CHARACTERISTIC CURVES - RED

Fig.1 Forward current vs. Forward Voltage

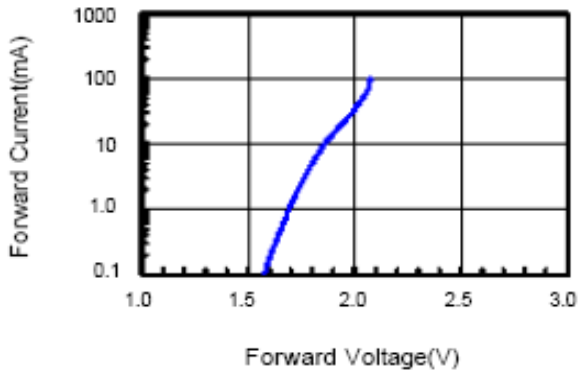


Fig.2 Relative Intensity vs. Forward Current

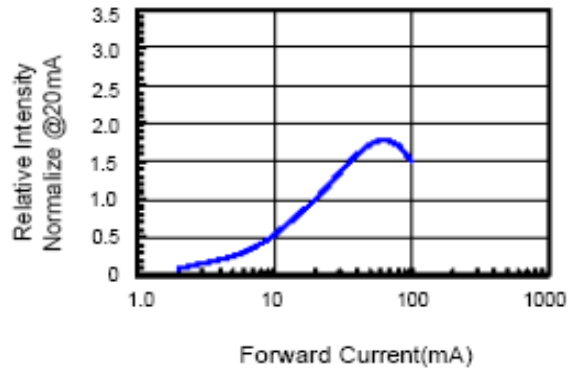


Fig.3 Forward Voltage vs. Temperature

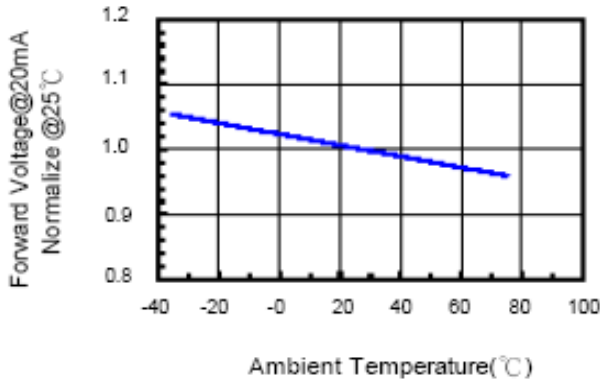


Fig.4 Relative Intensity vs. Temperature

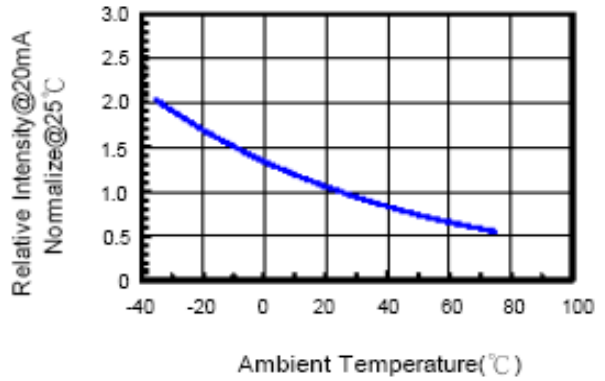
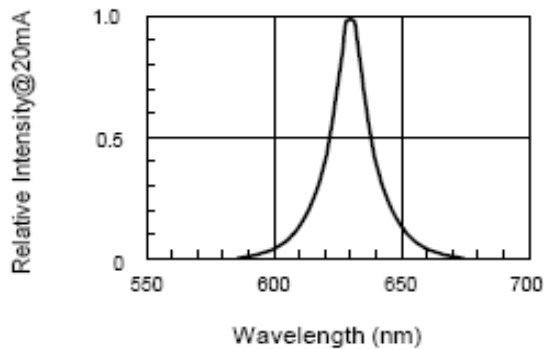


Fig.5 Relative Intensity vs. Wavelength



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OPTICAL CHARACTERISTIC CURVES - GREEN

Fig.1 Forward current vs. Forward Voltage

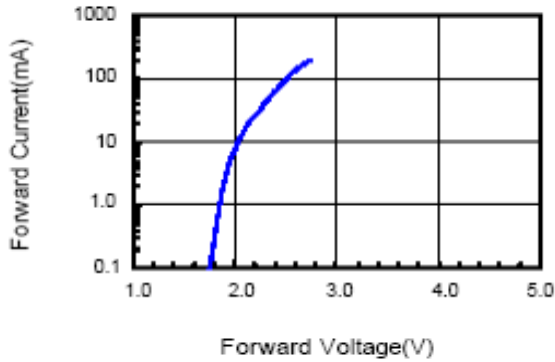


Fig.2 Relative Intensity vs. Forward Current

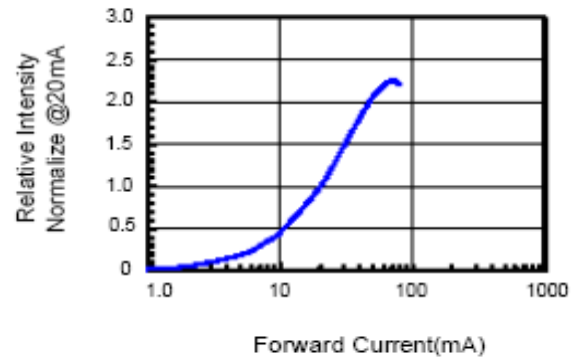


Fig.3 Forward Voltage vs. Temperature

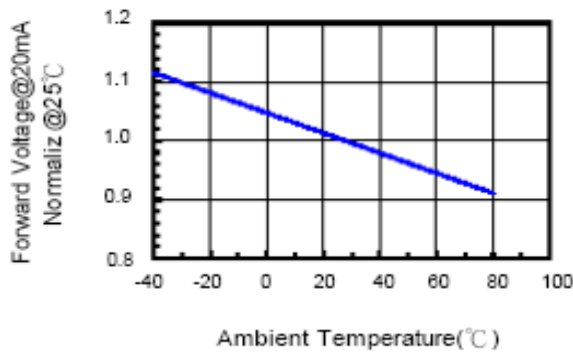


Fig.4 Relative Intensity vs. Temperature

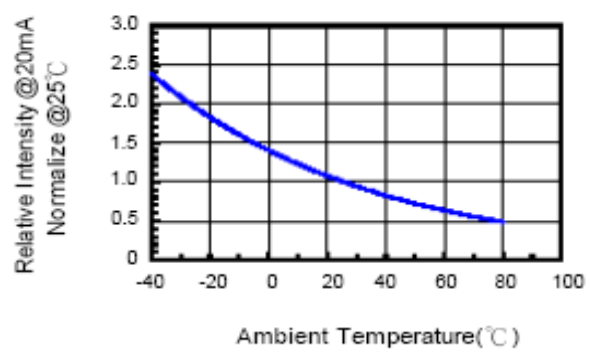
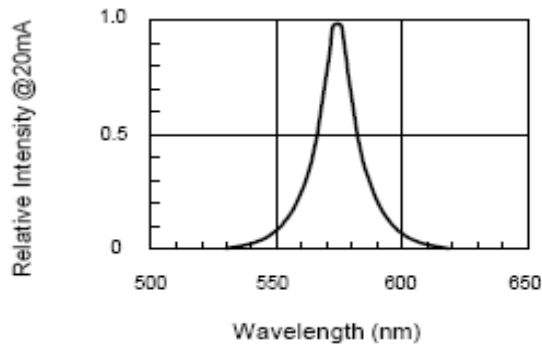


Fig.5 Relative Intensity vs. Wavelength



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SOLDERING CONDITIONS

RECOMMENDED Sn-PB IR-Reflow Soldering Profile



RECOMMENDED Pb-Free Soldering Profile



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