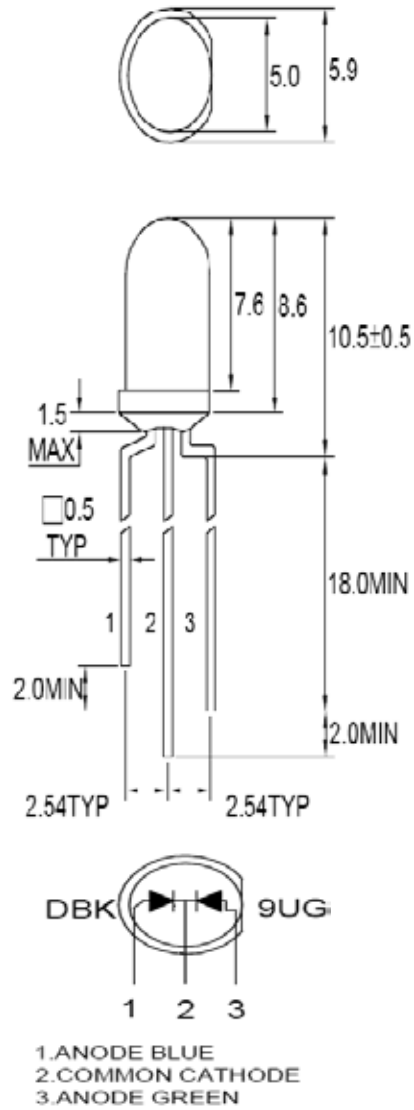


SPECIFICATION **CLB50G2B2WCA**
PACKAGE OUTLINES
Description

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

Features

- *Emitting Color: Green/Blue
- *High Luminous Intensity
- *Technology: InGaAlP/InGaN
- *Peak Wavelength = 574nm/470nm



- 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
CLB50G2B2WCA	InGaAlP	Green	White Diffused	70°
	InGaN	Blue		



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating		Unit
		Green	Blue	
Forward Current	I _F	30	30	mA
Reverse Current @ 5V	I _R	10	50	μA
Power Dissipation	P _d	75	120	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	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	G	120	300	-	mcd
			B	220	340		
Forward Voltage	V _F	I _F = 20mA	G	-	2.3	2.6	V
			B	-	3.5	4.0	
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 20mA	-	-	70	-	Deg
Peak Wavelength	λ _P	I _F = 20mA	G	-	574	-	nm
			B		470		
Dominant Wavelength	λ _D	I _F = 20mA	G	-	570	-	nm
			B		468		

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



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OPTICAL CHARACTERISTIC CURVES - GREEN

Fig.1 Forward current vs. Forward Voltage

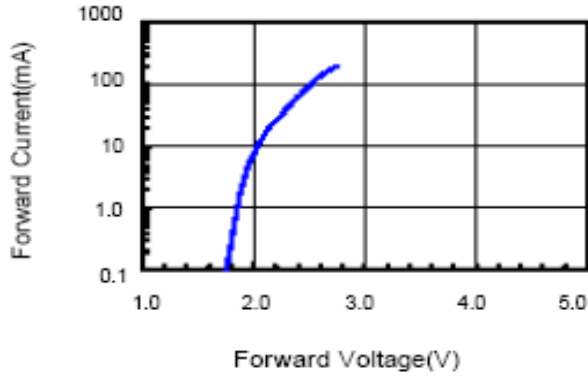


Fig.2 Relative Intensity vs. Forward Current

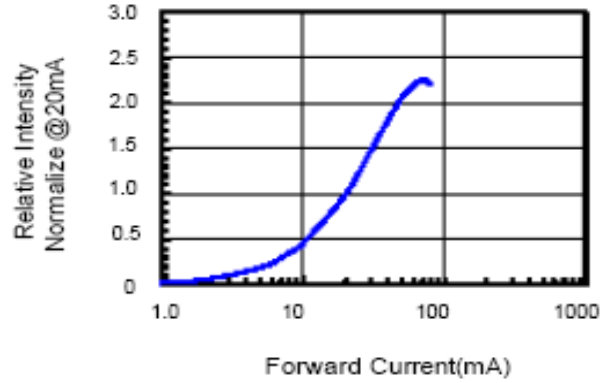


Fig.3 Forward Voltage vs. Temperature

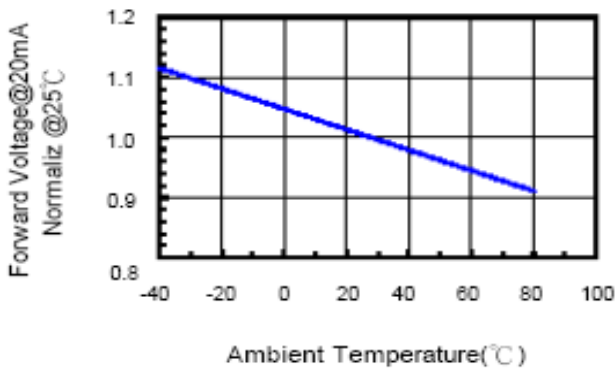


Fig.4 Relative Intensity vs. Temperature

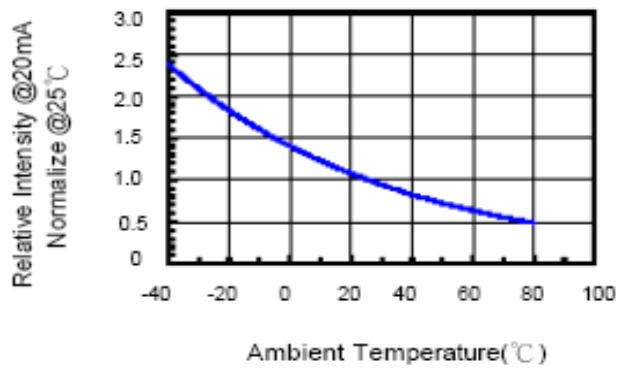
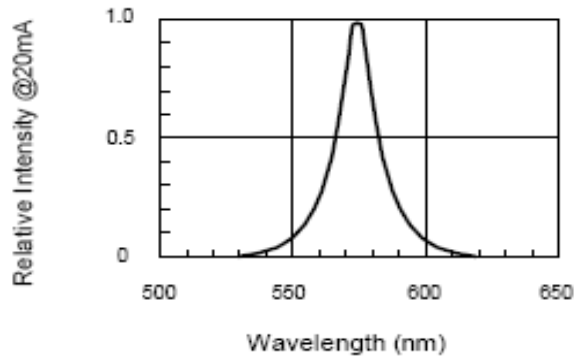


Fig.5 Relative Intensity vs. Wavelength



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OPTICAL CHARACTERISTIC CURVES - BLUE

Fig.1 Forward current vs. Forward Voltage

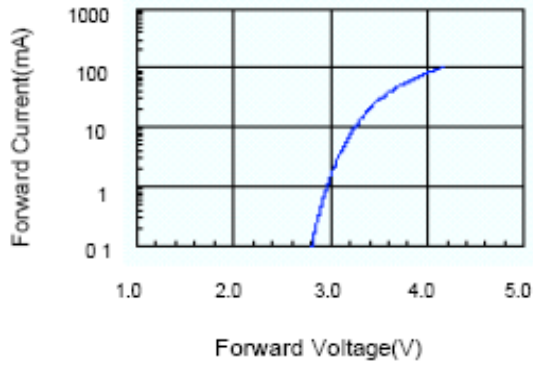


Fig.2 Relative Intensity vs. Forward Current

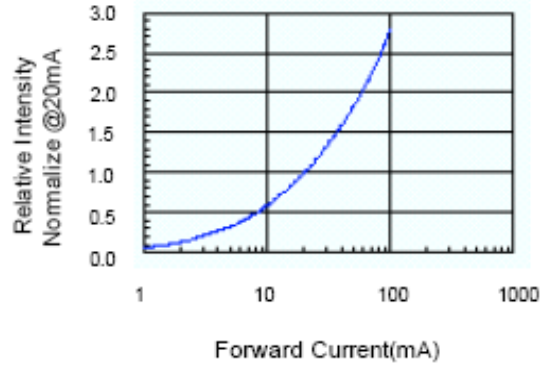


Fig.3 Forward Voltage vs. Temperature

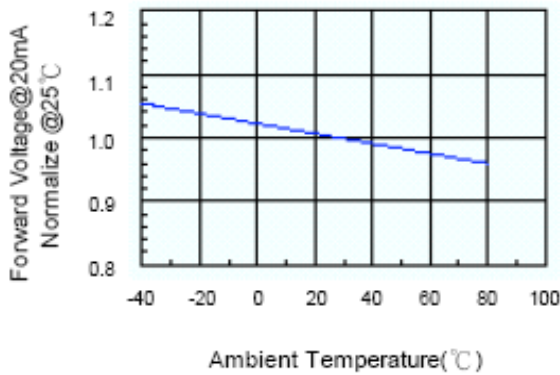


Fig.4 Relative Intensity vs. Temperature

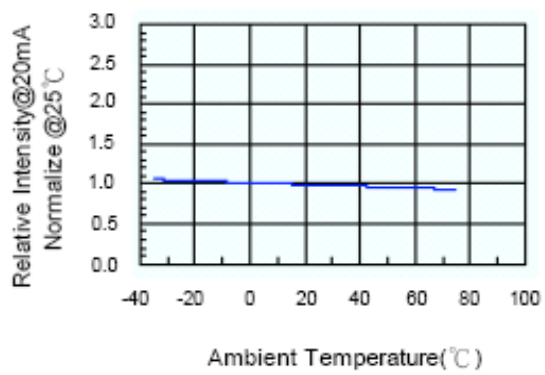
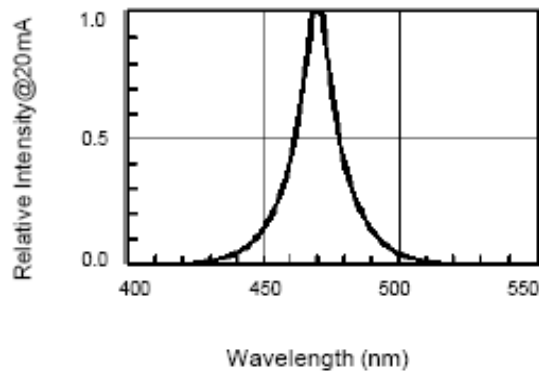


Fig.5 Relative Intensity vs. Wavelength



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SOLDERING CONDITIONS

RECOMMENDED Sn-PB IR-Reflow Soldering Profile



RECOMMENDED Pb-Free Soldering Profile



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