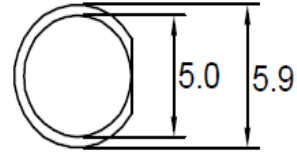
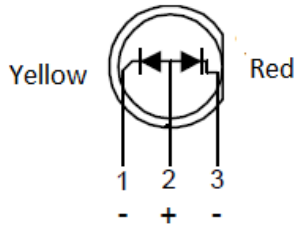


SPECIFICATION **CLB50R2Y2WCA**
PACKAGE OUTLINES
Description

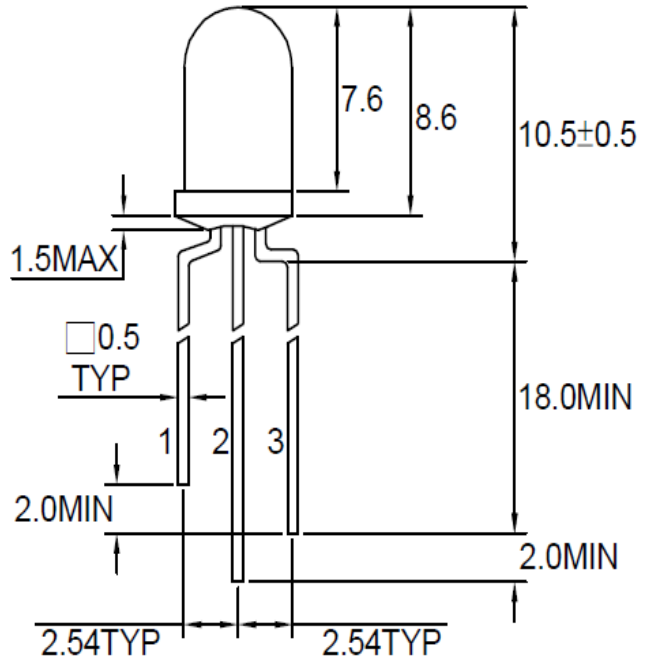
- *Round Type Dual Color
- *T1-3/4 (5mm) Diameter
- *Lens Color: White Diffused
- *With Flange


Features

- *Emitting Color: Red/Yellow
- *High Luminous Intensity
- *Technology: InGaAlP/InGaAlP
- *Dominant Wavelength = 590/630nm



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


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
CLB50R2Y2WCA	InGaAlP	Red	White Diffused	76°
	InGaAlP	Yellow		



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating		Unit
		Red	Yellow	
Forward Current	I _F	30	30	mA
Peak Pulsing Current (1/10 duty f = 10KHz)	I _{FP}	90	60	mA
Power Dissipation	P _d	75	75	mW
Reverse Current @ 5V	I _R	10		μA
Operating Temperature Range	T _{OP}	-40~+85		°C
Storage Temperature Range	T _{STG}	-40~+90		°C
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	9	15	-	mcd
			Y	15	28		
Forward Voltage	V _F	I _F = 20mA	R	-	2.2	2.4	V
			Y	-	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
			Y		589		
Dominant Wavelength	λ _D	I _F = 20mA	R	-	630	-	nm
			Y		585		

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



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OPTICAL CHARACTERISTIC CURVES - RED

Fig.1 Forward current vs. Forward Voltage

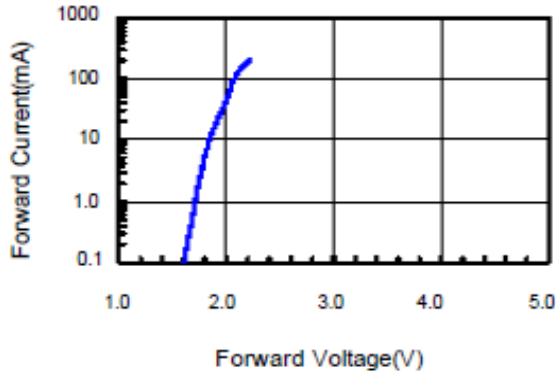


Fig.2 Relative Intensity vs. Forward Current

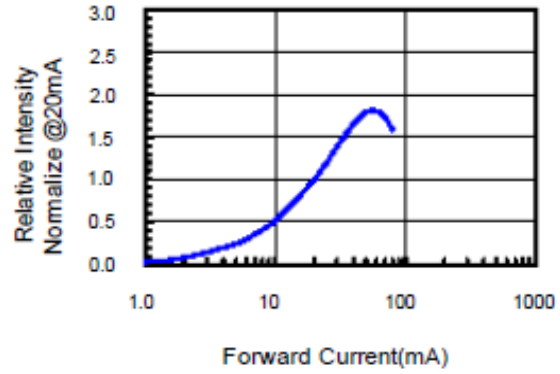


Fig.3 Forward Voltage vs. Temperature

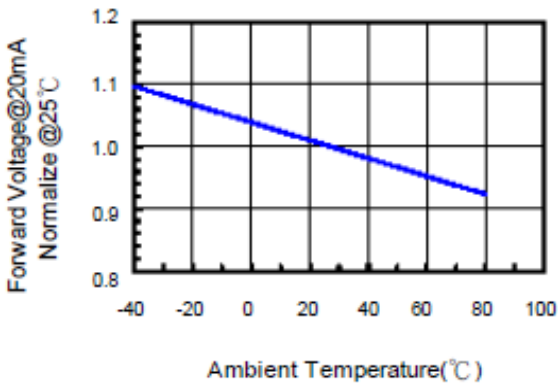


Fig.4 Relative Intensity vs. Temperature

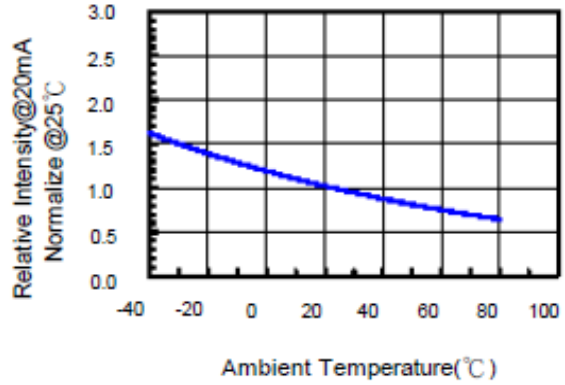
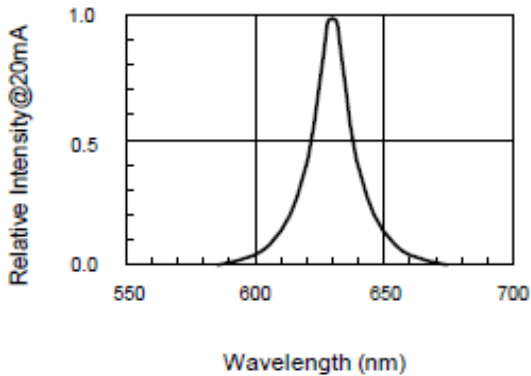


Fig.5 Relative Intensity vs. Wavelength



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OPTICAL CHARACTERISTIC CURVES - YELLOW

Fig.1 Forward current vs. Forward Voltage

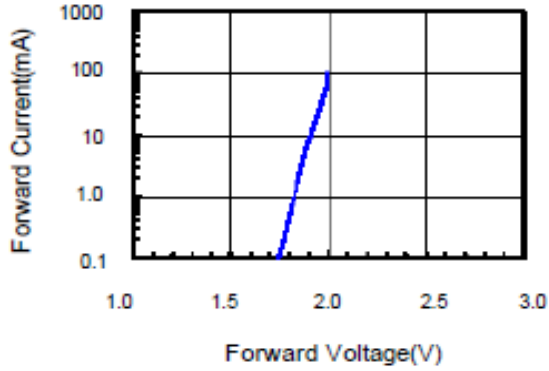


Fig.2 Relative Intensity vs. Forward Current

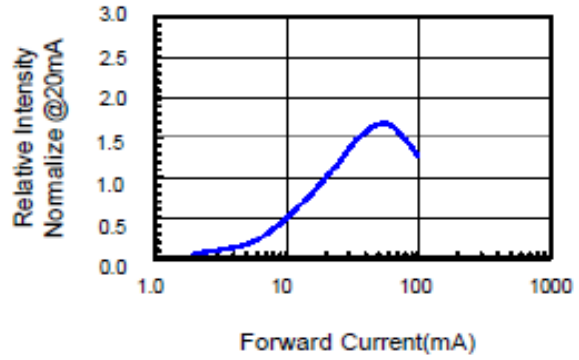


Fig.3 Forward Voltage vs. Temperature

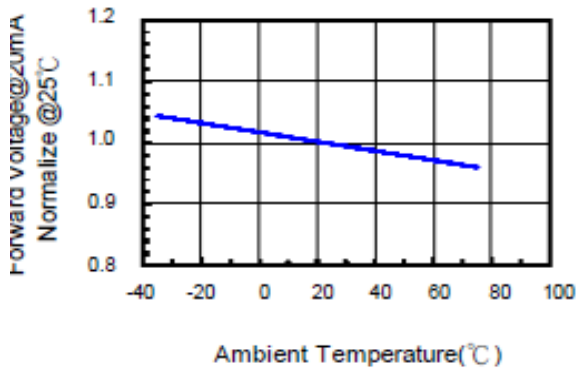


Fig.4 Relative Intensity vs. Temperature

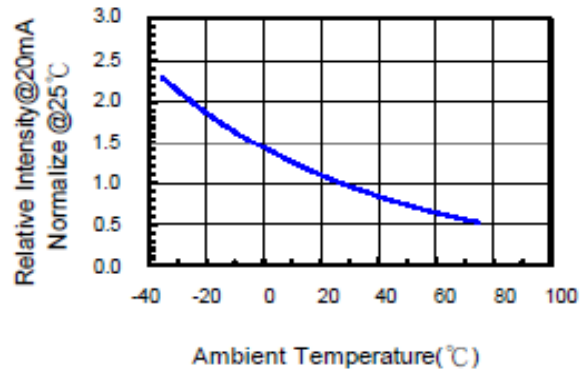
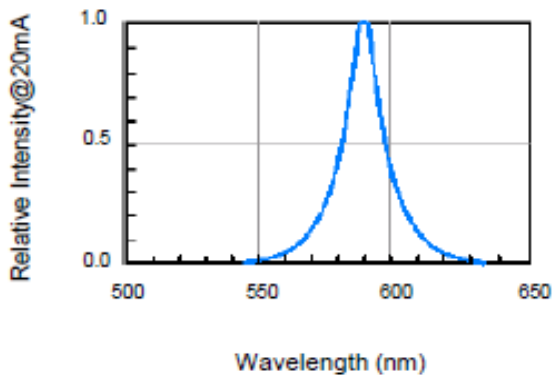


Fig.5 Relative Intensity vs. Wavelength



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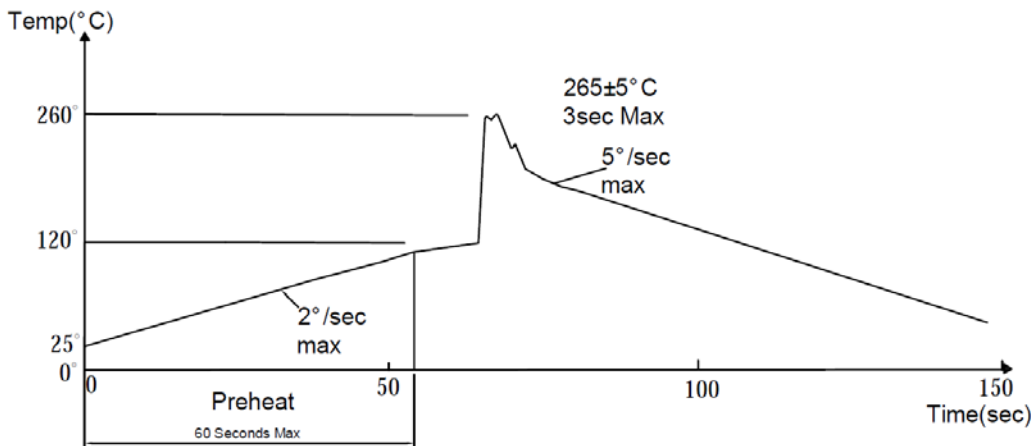
SOLDERING CONDITIONS - LEAD FREE

1. Iron:

Soldering Iron: 30W Max
 Temperature 350°C Max
 Soldering Time: 3 Seconds Max (One Time Only)
 Distance: 2mm Mn (From Solder Joint to Body)

2. Wave Soldering Profile

Dip Soldering
 Preheat: 120°C Max
 Preheat Time: 60 Seconds Max
 Ramp-up
 2°C/sec (max)
 Ramp-Down:-5°C/sec (max)
 Solder Bath: 265±5°C Max
 Dipping Time: 5 Seconds Max
 Distance: 2mm Min (From Solder Joint to Body)



Note:

1. Wave solder should not be made more than one time.
2. You can only select one of the soldering conditions above.



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