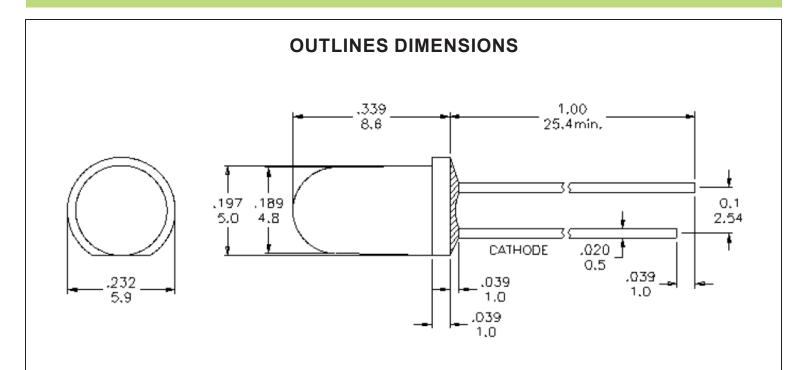


SPECIFICATIONS CL50G2D



Notes:

- 1. All Dimensions are in millimeters (inches).
- 2. Tolerance is \pm 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	
CL50G2D	InGaAlP	Green	Green Diffused	45°	



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ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Power Dissipation	Pb	72	mW	
Pulse Current Forward Current	lFP	100	mA	
Continuous Forward Current	lF	30	mA	
Reverse Voltage	VR	5	V	
Operating Temperature Range	Topr	-40~+80	°C	
Storage Temperature Range	Тѕтс	-40~+100	°C	
	_		_	

IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Darameter	Symbol	Toot Condition	Value			Lloit
Parameter		Test Condition	Min	Тур	Max	Unit
Luminous Intensity	lv	I _F = 20mA	18	50	-	mcd
Forward Voltage	VF	I⊧ = 10mA	-	2.0	2.4	V
Reverse Leakage Current	lR	V _R = 5V	-	-	50	μA
Viewing Angle	201/2	I⊧ = 10mA	-	45	-	deg
Dominant Wavelength	λD	I⊧ = 10mA	-	570	-	nm

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



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OPTICAL CHARACTERISTIC CURVES

Fig 1. Forward Current vs. Forward Voltage

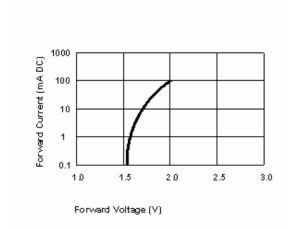


Fig 3. Forward Voltage vs. Temperature

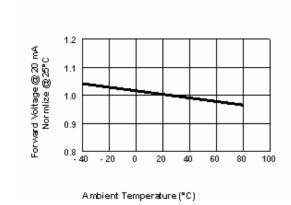


Fig5.Relative Intensity Vs.Wavelength

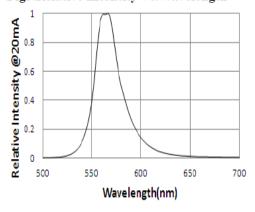
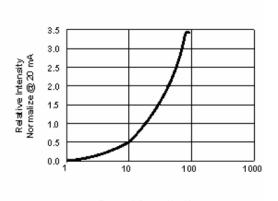
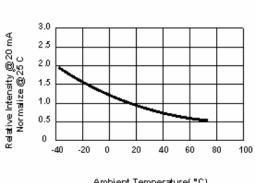


Fig 2. Relative Intensity vs. Forward Current



Forward Current(mA)

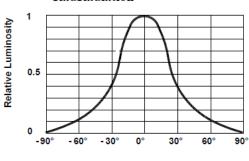
Fig 4. Relative Intensity vs.Temperature



Ambient Temperature(°C)

Fig6.Relative Luminous Intensity Vs.





Radiation Angle



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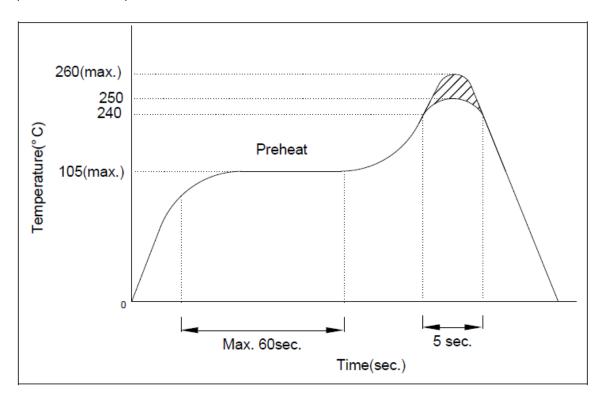
SOLDERING CONDITIONS – LAMP TYPE LED

PRECAUTION FOR USE

Recommended Soldering Condition

1.1 Wave Soldering

Basic spec is \leq 5 sec. when 260°C. If temperature is higher, time should be shorter (+10°C \rightarrow -1 sec).



1.2 Soldering Iron

Power dissipation of iron should be smaller than 15W and temperature should be controllable. Surface temperature of iron tip should be under 230°C, soldering time ≤ 3 sec.

2. Electrostatic Discharge (ESD)

Static electricity or surge voltage will damage the LEDs.

Use of conductive wrist band or anti-electrostatic glove when handling these LEDs is recommended. All devices, equipment, work table, storage rack and machinery must be properly grounded.

In the events of manual working in process, make sure devices are well protected from ESD at all times.

