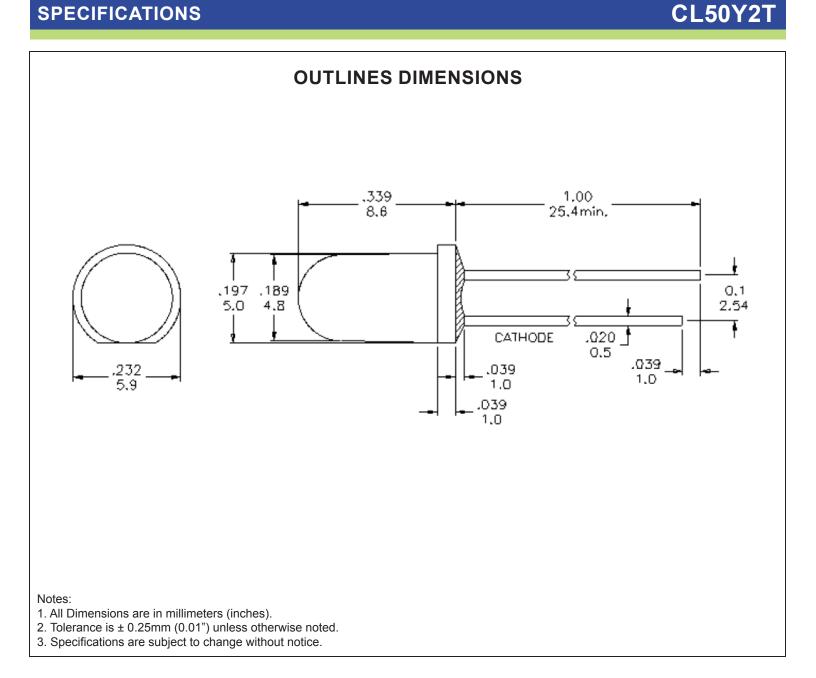


SPECIFICATIONS



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CL50Y2T	InGaAIP	Yellow	Yellow Transparent	40°



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ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Power Dissipation	PD	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 \leq 10 ms, Duty Ratio \leq 1/10. Soldering Condition: 260 °C/ 5sec				

OPTICAL-ELECTRICAL CHARACTERISTICS

Value **Test Condition** Parameter Symbol Unit Min Тур Max 290 550 Luminous Intensity Iv I_F = 20mA mcd Forward Voltage I⊧ = 10mA 2.0 2.4 V VF _ 50 **Reverse Leakage Current** $V_R = 5V$ _ IR _ μA **Viewing Angle** $2\theta 1/2$ I_F = 10mA 40 _ _ deg I⊧ = 10mA 588 **Dominant Wavelength** _ λD _ nm

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



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(TA=25°C)



OPTICAL CHARACTERISTIC CURVES

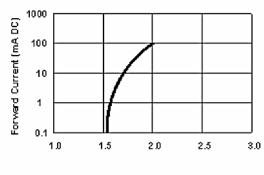
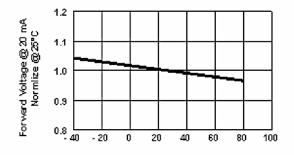


Fig 1. Forward Current vs. Forward Voltage



Fig 3. Forward Voltage vs. Temperature



Ambient Temperature (°C)

Fig5.Relative Intensity Vs.Wavelength

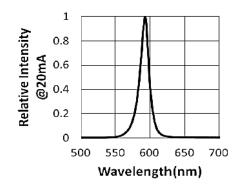
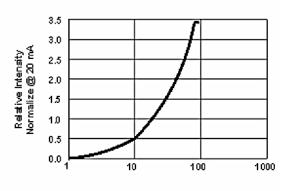
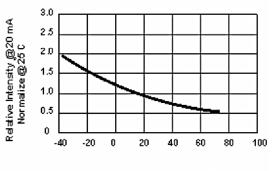


Fig 2. Relative Intensity vs. Forward Current



Forward Current(mA)

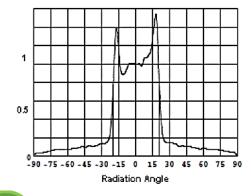




Ambient Temperature(°C)

Fig6.Relative Luminous Intensity Vs.

Radiation Angle





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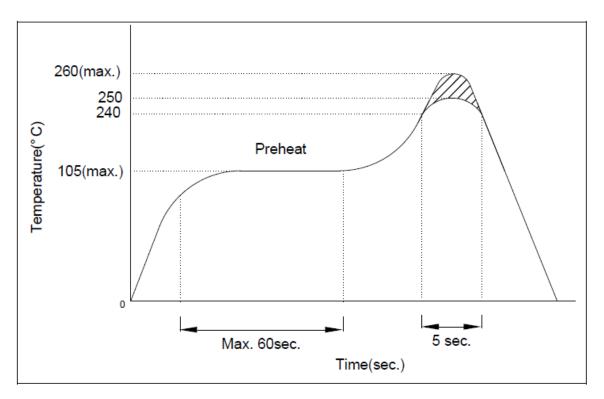


SOLDERING CONDITIONS – LAMP TYPE LED

PRECAUTION FOR USE

- 1. 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.



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