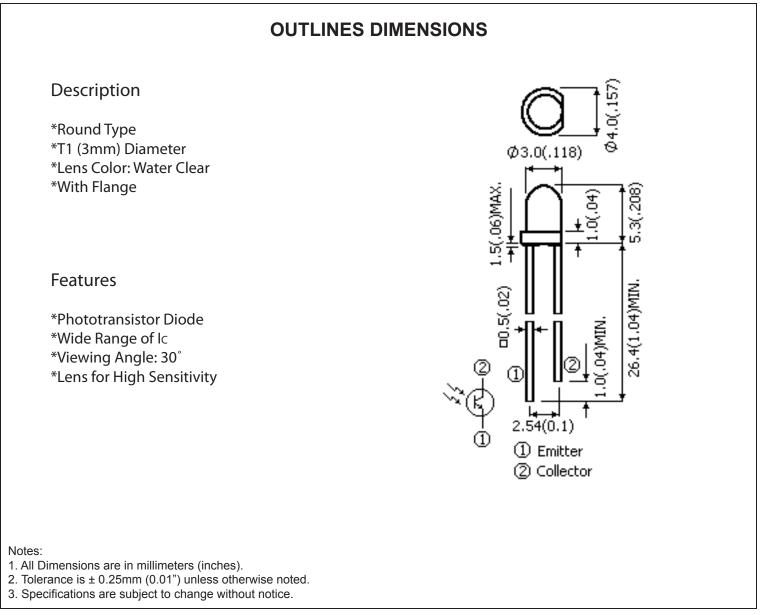


SPECIFICATIONS



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CL30PT2C	Silicon	Phototransistor	Water Clear	30°



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

CL30PT2C



ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Power Dissipation	Po	100	mW	
Emitter-Collector Breakdown Voltage	BVeco	5	V	
Collector-Emitter Sustaining Voltage	VCE	30	V	
Relative Humidity at 85C°	Hr	85	%	
Operating Temperature Range	Topr	-40~+85	°C	
Storage Temperature Range	Тѕтс	-50~+100	°C	

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

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

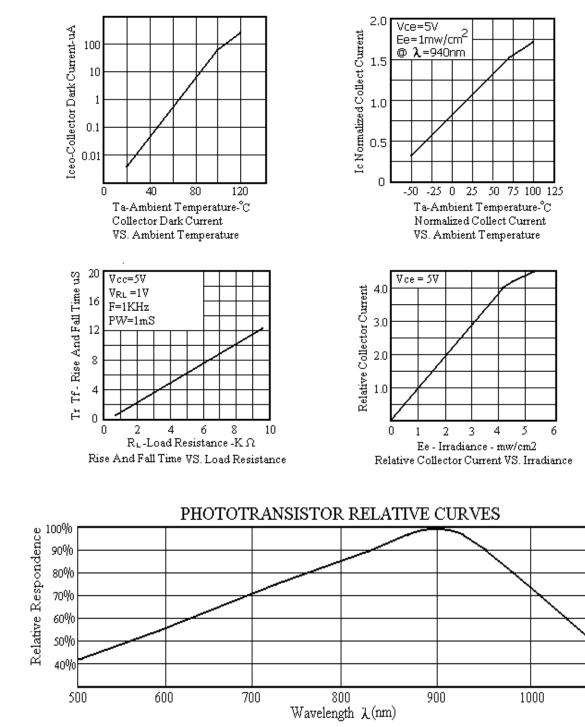
Deremeter	Symbol	Test Condition	Value			Lipit
Parameter			Min	Тур	Max	Unit
Collector-Emitter Sustaining Voltage	VCE	Ic=0.5mA,E=0	30	60	-	V
Collector-Emitter Saturation Voltage	VCE(SAT)	Ic=100uA,E=0.6	-	0.4	-	V
Emitter-Collector Breakdown Voltage	BVECO	Ic=100uA,E=0	5	7	-	V
Dark Current	lo	Vce=10V,E=0	-	-	100	nA
Photo Current	١L	Vce=5V,E=1.0	1.0	6	-	mA
Rise Time	Tr	Vcc=5V I∟=800uA RL=1K OHM	_	10	-	uS
Fall Time	TF		-	15	-	uS



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com



OPTICAL CHARACTERISTIC CURVES



PHOTOTRANSISTOR - Typical Electrical / Optical Characteristic Curves



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

1100



SOLDERING CONDITIONS – LAMP TYPE LED

- * Solder the LED no closer than 3mm from the base of the epoxy bulb. Soldering beyond the base of the tie bar is recommended.
- * Recommended soldering conditions

Dip Soldering				
Pre-Heat	100 °C Max			
Pre-Heat Time	60 Second Max			
Solder Bath Temperature	260 °C Max			
Dippng Time	5 Second Max			
Dipping Position	No lower than 3mm from the base of the epoxy			

Hand Soldering				
Temperature Soldering Time Position	3mm Series	Others		
	300 °C Max	350 °C Max		
	3 Second Max	3 Second Max		
	No closer than 3mm from the	No closer than 3mm from the		
	base of the epoxy	base of the epoxy		

- * Do not apply any stress to the lead. Particularly when heated.
- * The LED must not be repositioned after soldering.
- * After soldering the LEDs, the epoxy bulb should be protected from mechanical shock or vibration until the LEDs return to room temperature.
- * Direct soldering onto a PC board should be avoided. Mechanical stress to the resin may be caused by the PC board warping or from the clinching and cutting of the leadframes. When it is absolutely necessary, the LEDs may be mounted in this fashion, but, the user will assume responsibility for any problems. Direct soldering should only be done after testing has confirmed that no damage, such as wire bond failure or resin deterioration, will occur. LEDs should not be soldered directly to double sided PC boards because the heat will deteriorate the epoxy resin.
- * When it is necessary to clamp the LEDs to prevent soldering failure, it is important to minimize the mechanical stress on the LEDs.
- * Cut the LED leadframes at room temperature. Cutting the leadframes at high temperature may cause LED failure.



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com