



### **Features**

Pb free product—RoHS compliant
Low power consumption, High efficiency
Reliable and rugged
Long life – solid state reliability
Fast response time
High photo sensitivity

## Package Dimension

#### Notes:

- 1. All dimensions are in millimeters.
- ▼. Tolerance is ±0.10mm unless otherwiseer

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#### Electrical Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Range Of Spectral Bandwidth	0.5	780		1100	nm		
Wavelength Of Peak Sensitivity	Р		940		nm		
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	30			V	I <sub>C</sub> =0.1mA Ee=0mW/cm2	
Emitter-Collector Breakdown Voltage	BV <sub>ECO</sub>	5			٧	I <sub>E</sub> =0.1mA Ee=0mW/cm2	
Collector-Emitter Saturation Voltage	$V_{\text{CE(SAT)}}$			0.4	V	I <sub>C</sub> =0.1mA Ee=1mW/cm2	
Rise Time	Tr		15		μs	V <sub>CE</sub> =5V	
Fall Time	Tf		15		μs	$I_C=1$ mA $R_L=1000$	
Viewing Angle	2 1/2		50		Deg.		
Collector Dark Current	I <sub>CEO</sub>			100	nA	V <sub>CE</sub> =10V Ee=0mW/cm2	
On State Collector Current	I <sub>C(ON)</sub>	1.0			mA	V <sub>CE</sub> =5V Ee=1mW/cm2 p=940nm	

#### Note:

- 1.  $_{1/2}$  is the off-axis angle at which the  $I_{C(ON)}$  is half the axial  $I_{C(ON)}$ .
- 2. The  $I_{\text{C(ON)}}$  guarantee should be added  $\pm 15\%$  tolerance.

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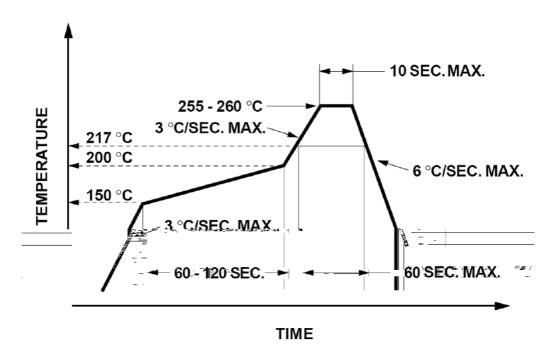


Carrier	Tape Specifications	
Note	ance unless mentioned is ±0.1mm; Unit = mm	
Mg	Resistant Packagip	





### Suggest IR Reflow Condition For Lead Free



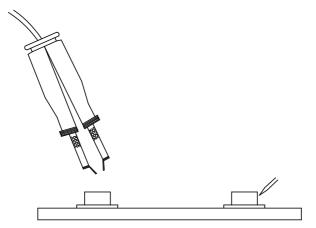
- 1. Reflow soldering should not be done more than two times.
- 2. When soldering, do not put stress on the LEDs during heating.

#### Soldering iron

- 1. When hand soldering, the temperature of the iron must less than 300°C for 3 seconds.
- 2. The hand solder should be done only once.

#### Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed beforehand whether the characteristics of LEDs will or will not be damaged by repairing.



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