





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.

2.

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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 _{CEO}	30			V	I _C =0.1mA Ee=0mW/cm2
Emitter-Collector Breakdown Voltage	BV _{ECO}	5			٧	I _E =0.1mA Ee=0mW/cm2
Collector-Emitter Saturation Voltage	$V_{\text{CE(SAT)}}$			0.4	V	I _C =0.1mA Ee=1mW/cm2
Rise Time	Tr		15		μs	V _{CE} =5V
Fall Time	Tf		15		μs	$I_C=1$ mA $R_L=1000$
Viewing Angle	2 1/2		50		Deg.	
Collector Dark Current	I _{CEO}			100	nA	V _{CE} =10V Ee=0mW/cm2
On State Collector Current	I _{C(ON)}	1.0			mA	V _{CE} =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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Note: Tolerance unless mentioned is ±0.1mm; Unit = mm

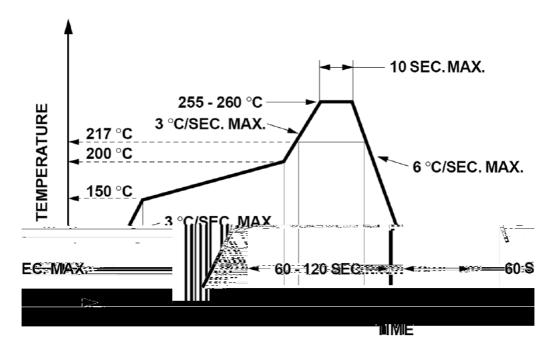
Moisture Resistant Packaging

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Suggest IR Reflow Condition For Lead Free



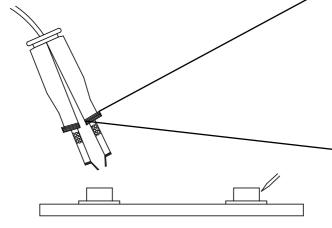
- 1. Reflow soldering should not be done more than two times.
- 2. When soldering, do not put stress on the LEDs during heating.

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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