



LIGHT ELECTRONICS CO., LTD.



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Absolute Maximum Ratings at Ta=25

Parameter	MAX.	Unit	
Power Dissipation	180	mW	
Continuous Forward Current	100	mA	
Peak Forward Current*2	1000	mA	
Reverse Voltage	5	V	
Electrostatic Discharge (HBM)*3	2000	V	
Moisture Sensitivity Level*1	5a		
Operating Temperature	-40 to +85		
Storage Temperature	-40 to + 100		
IR Reflow Temperature	260 for 10 Seconds MAX.		

1. Storage and operating:

(1). Storage requirements before vacuum bag opened: Temperature<30 , HumHBT 0 g re /T



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Electrical Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Radiant Intensity	Ie	1.7	2.0		mW/sr	I _F =20mA (Note 1,3)	
Viewing Angle	2 _{1/2}		120		Deg.	(Note 2)	
Peak Wavelength	p		940		nm	I _F =20mA	
Spectral Line Half- Width			50		nm	I _F =20mA	
Forward Voltage	V_{F}		1.35	1.60	V	I _F =20mA	
Reverse Current	I_R			10	μA	V _R =5V	

Note:

- 1. Point sources of the amount of radiation per unit time in a given direction within the unit solid Angle radiated energy.
- 2 _{1/2} is the off-axis angle at which the Radiant Intensity is half the axial Radiant Intensity.
- 3. The Ie guarantee should be added $\pm 15\%$ tolerance.

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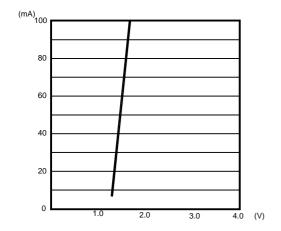
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Typical Electrical / Optical Characteristics Curves

(25 Ambient Temperature Unless Otherwise Noted)











Radiant Intensity Bin Code (I_F=20mA)

BIN CODE	Min.(mW/sr)	Max. (mW/sr)
0	1.7	1.8
1	1.8	2.0
2	2.0	2.3
3	2.3	2.8

NOTE: The Ie guarantee should be added $\pm 15\%$ tolerance.

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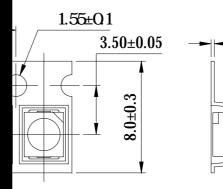
O., LTD.



0.25

2000pcs/reel)

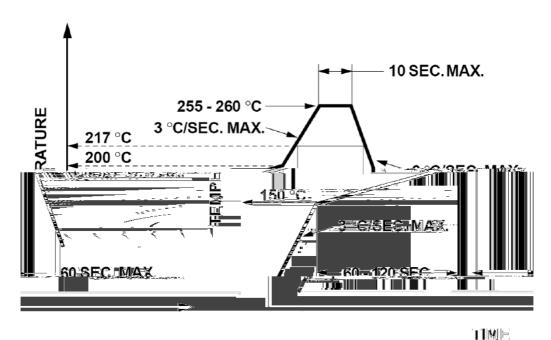








Suggest IR Reflow Condition For Lead Free



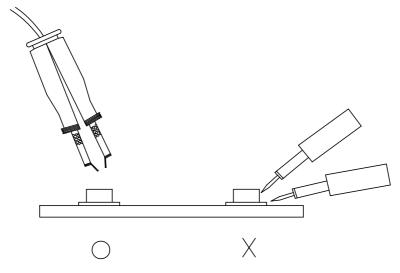
- 1. Reflow soldering should not be done more than two times.
- 2. When soldering, do not put stress on the LEDs during heating.

Soldering iron

- 1. When hand soldering, the temperature of the iron must less than 300 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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