

Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	75	mW
Continuous Forward Current	50	mA
Peak Forward Current ^{*3}	1.0	A
Reverse Voltage	5	V
Electrostatic Discharge (HBM) ^{*4}	4000	V
Operating Temperature	-40 to + 85	
Storage Temperature	-40°C to + 100°C	
Lead Soldering Temperature [2mm From Body]	260 for 3 Seconds	
Lead Soldering Temperature [5mm From Body]	260 for 5 Seconds	

1. Storage:

The storage ambient for the LEDs should not exceed 30°C temperature or 70% relative humidity.

It is recommended that LEDs out of their original packaging are used within three months.

For extended storage out of their original packaging, it is recommended that the LEDs be stored in a sealed container with appropriate desiccant or in desiccators with nitrogen ambient.

2. Precautions in handling:

When soldering, leave 2mm of minimum clearance from the resin to the soldering point.

Dipping the resin to solder must be avoided.

Correcting the soldered position after soldering must be avoided.

In soldering, do not apply any stress to the lead frame particularly when heated.

When forming a lead, make sure not to apply any stress inside the resin.

Lead forming must be done before soldering.

It is necessary to cut the lead frame at normal temperature.

3. Peak Forward Current:

4. Caution in ESD:

Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Radiant Intensity	I _e	0.64	1.12	---	mW/sr	I _F =5mA (Note 1,3)
	$\frac{1}{2}$	---	20	---	Deg.	(Note 2)
						I _F =5mA
Spectral Line Half- Width		---	50	---	nm	I _F =5mA
Forward Voltage	V _F	---	1.2	1.5	V	I _F =5mA

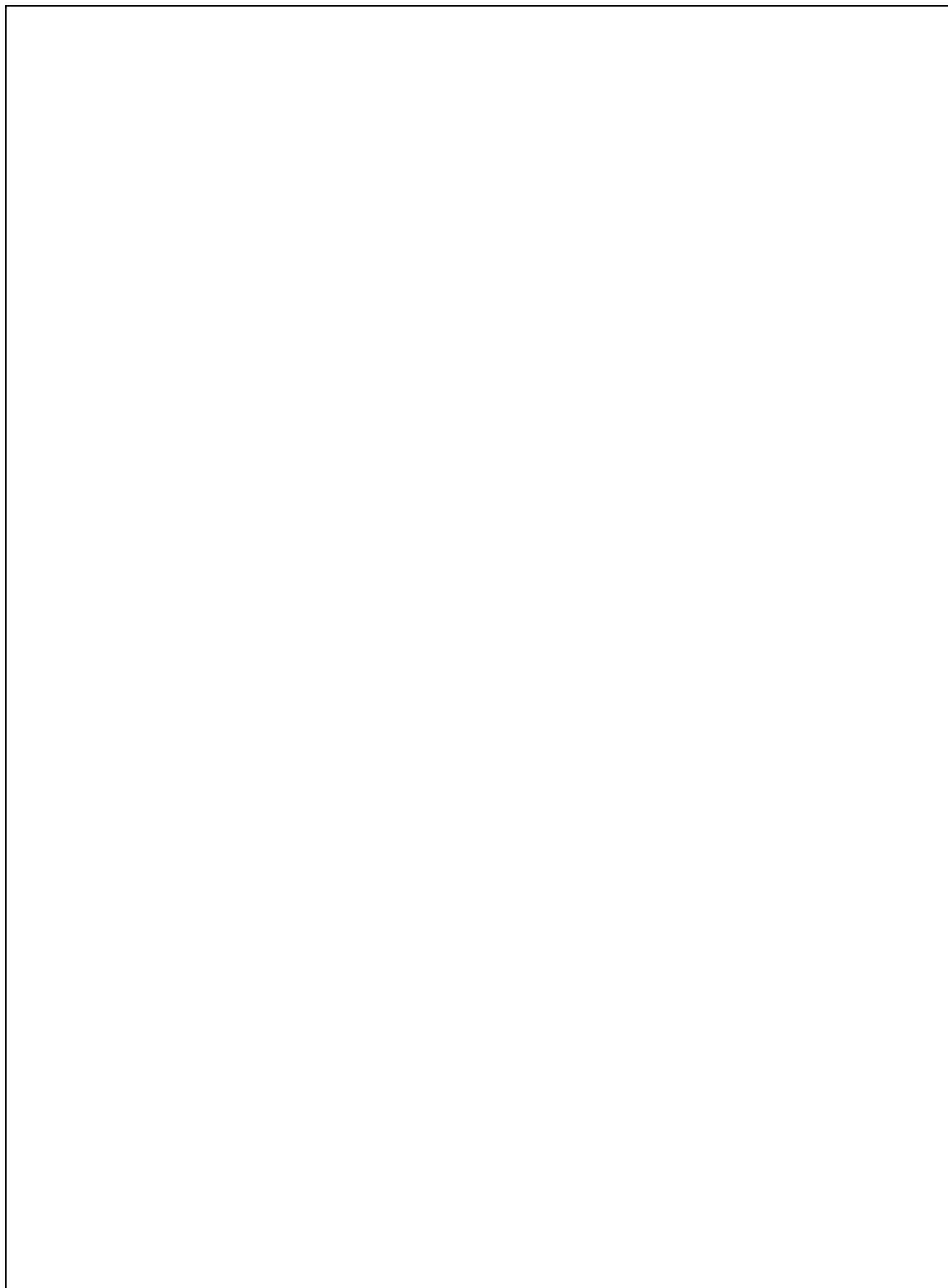
Infrared Emitting Diode Specification

●Commodity: Infrared emitting diode

●Radiant Intensity Bin Limits (IF=5mA)

BIN CODE	Min.(mW/sr)	Max. (mW/sr)
X7	0.64	0.77
X8	0.77	0.92
X9	0.92	1.10
X10	1.10	1.30
X11	1.30	1.55
X12	1.55	1.85

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



LEAD FORMING PROCEDURES

1. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend (Fig.5 and Fig.6).

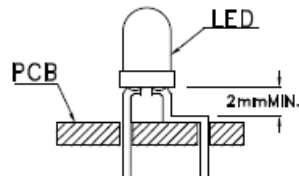


Fig. 5

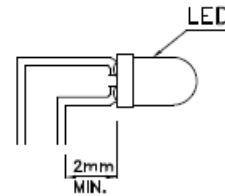


Fig. 6

2. Lead forming or bending must be performed before soldering, never during or after soldering.
3. Do not stress the LED lens during lead-forming in order to fractures in the lens epoxy and damage the internal structures.
4. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB (Fig.7).
5. Do not bend the leads more than twice(Fig.8)

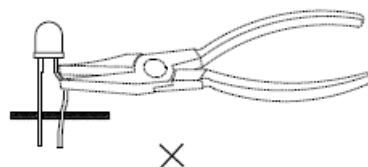


Fig. 7

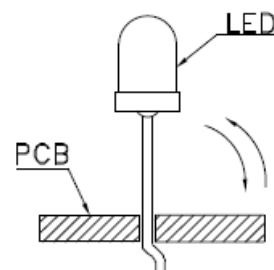


Fig. 8

6. After soldering or other high-temperature assembly, allow the LED to cool down to 50 before applying force (Fig.9).In general, avoid placing excess force on the LED to avoid damage. For any questions please consult with LIGHT representative for proper handling procedures.

