





## Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Radiant Intensity	Ie	2.2	3.1	4.5	mW/sr	I <sub>F</sub> =20mA (Note 1,3)
Viewing Angle	1/2		85		deg	(Note 2)
Peak Wavelength			940		nm	I <sub>F</sub> =20mA
Spectral Line Half- Width	Δ		50		nm	I <sub>F</sub> =20mA
Forward Voltage	$V_{\mathrm{F}}$		1.22	1.5	V	I <sub>F</sub> =50mA
Reverse Current	$I_R$			100	μА	V <sub>R</sub> =8V

## Note:

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

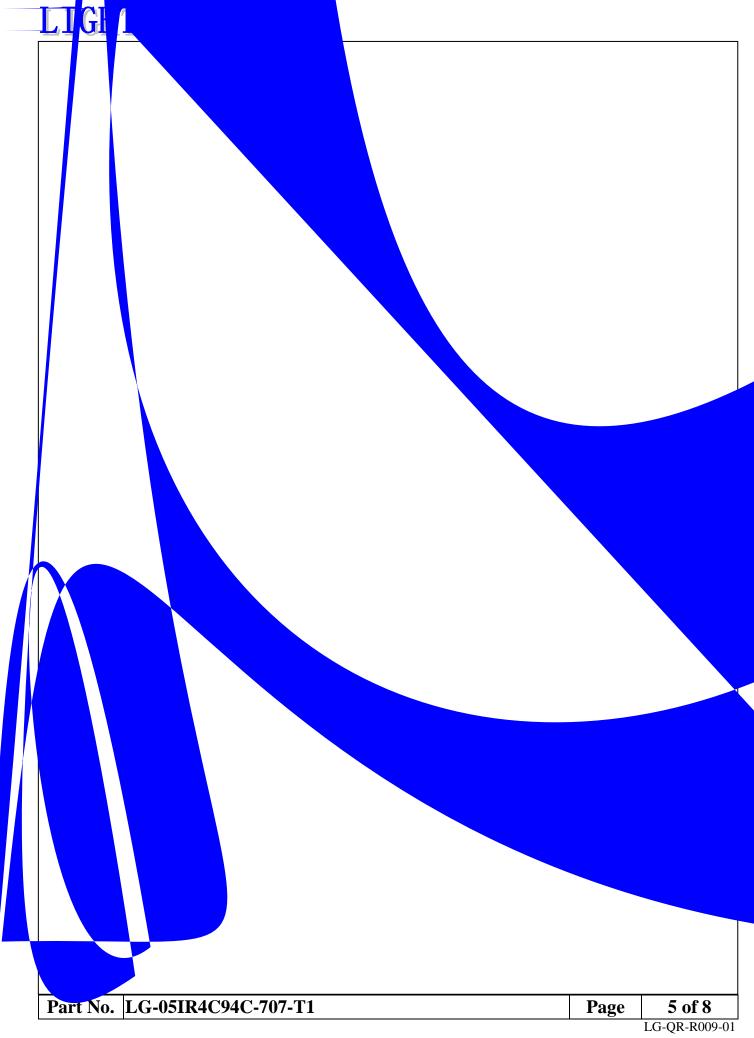
## Infrared Emitting Diode Specification

- **●**Commodity: Infrared emitting diode
  - ●Intensity Bin Limits (At 20mA)

BIN CODE	Min. (mW/sr)	Max. (mW/sr)
1	2.2	2.6
2	2.6	3.1
3	3.1	3.7
4	3.7	4.5

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

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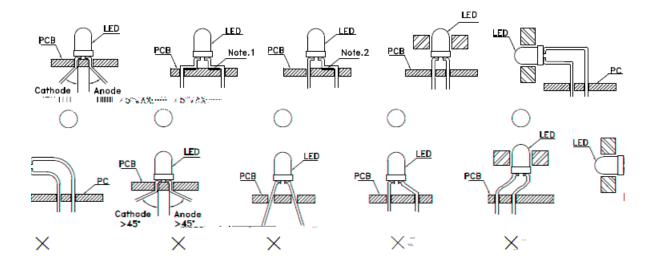






## LED MOUNTING METHOD

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures. (Fig. 1)



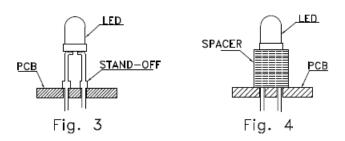
-2:Do not route PCB

Trace in the contact area between the leadframe and the PCB to prevent short-circuit.

2. When soldering wire to the LED, use individual heat-shrink tubing to insulate the exposed leads to prevent accidental contact short-circuit (Fig.2)



3. Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



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LEAD FORMING PROCEDURES		
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