



## Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	150	mW
Continuous Forward Current	100	mA
Peak Forward Current <sup>*1</sup>	1.0	A
Reverse Voltage	5	V
Operating Temperature	-40 to + 85	
Storage Temperature	-40 to + 85	
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.
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## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Radiant Intensity	I <sub>e</sub>	---	30	---	mW/sr	I <sub>F</sub> =50mA (Note 1,3)
Viewing Angle	$\frac{1}{2}$	---	65	---	deg	(Note 2)
Peak Wavelength		---	940	---	nm	I <sub>F</sub> =20mA
Spectral Line Half- Width		---	50	---	nm	I <sub>F</sub> =20mA
Forward Voltage	V <sub>F</sub>	---	1.25	1.5	V	I <sub>F</sub> =50mA
Reverse Current	I <sub>R</sub>	---	---	50	μA	V <sub>R</sub> =5

### Note:

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

## Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

Fig.1 Spectral Distribution

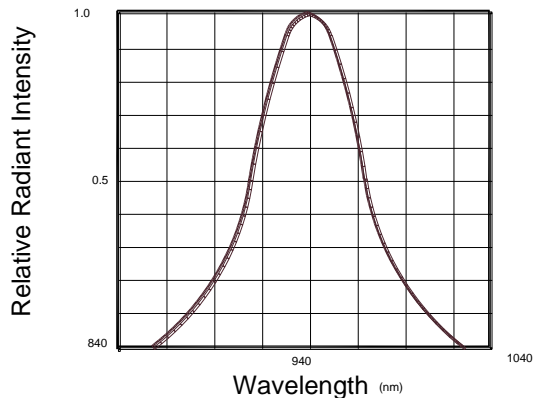


Fig.2 Forward Current Vs Ambient Temperature

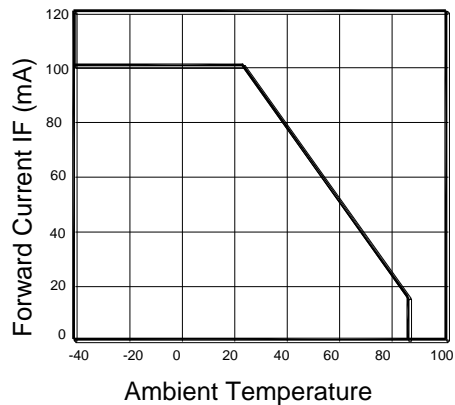


Fig.3 Forward Current Vs Forward Voltage

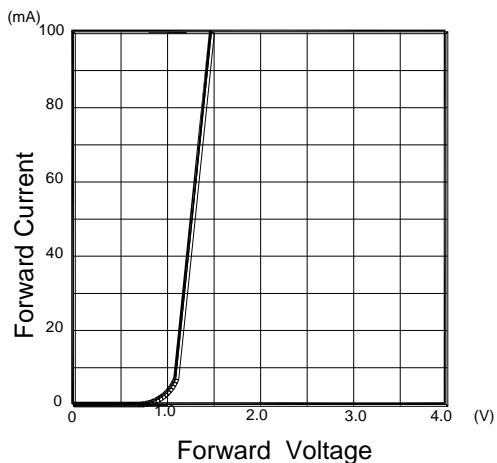


Fig.4 Relative Radiant Intensity Vs Ambient Temperature

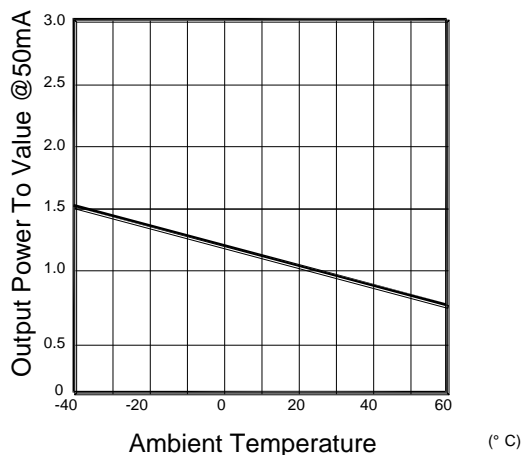
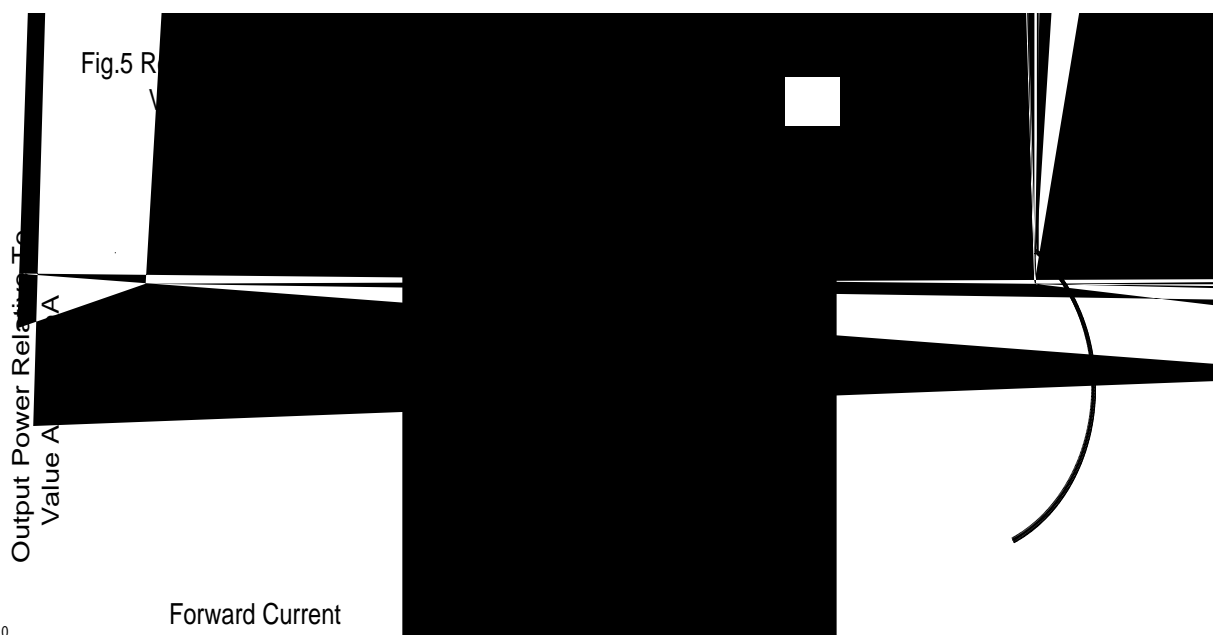


Fig.5 R





## LEAD FORMING PROCEDURES 01





