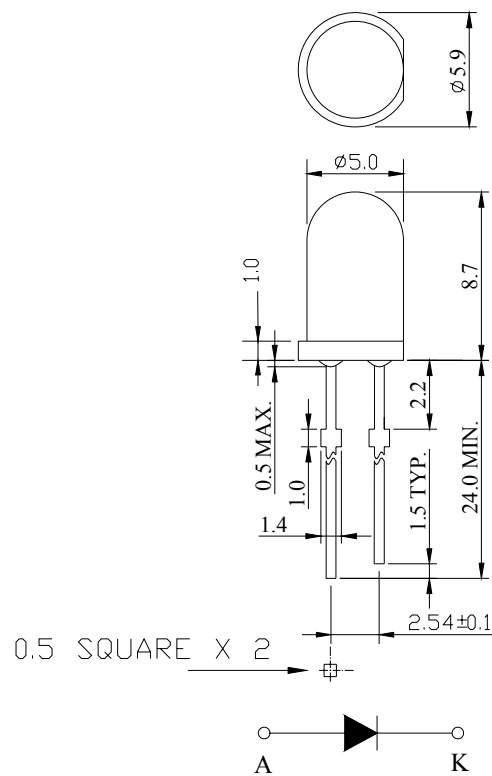


## Part Number: MC3750

### Features:

1. General Purpose Leads
2. Chip material: GaAsP/GaP
3. Emitted Color: Orange
4. Lens Color: Water Clear

### Package Dimensions:



### Notes:

1. ALL DIMENSIONS ARE IN mm.
2. TOLERANCE IS  $\pm 0.25$ mm UNLESS OTHERWISE NOTED.

### Absolute Maximum Ratings at Ta=25 °C

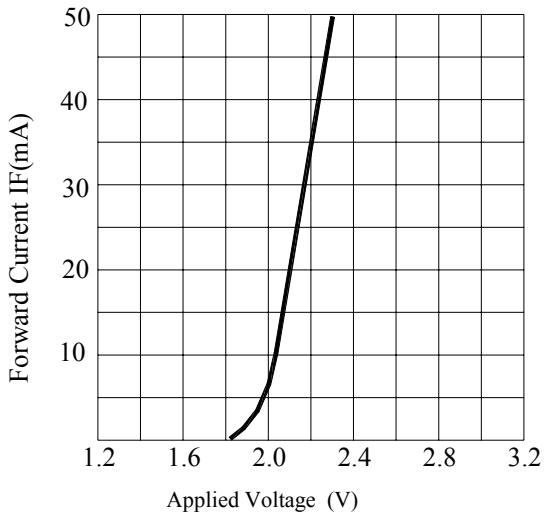
Parameter	Symbol	Rating	Unit
Power Dissipation	P <sub>D</sub>	78	mW
Reverse Voltage	V <sub>R</sub>	5	V
D.C. Forward Current	I <sub>f</sub>	30	mA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	I <sub>f</sub> (Peak)	100	mA
Operating Temperature Range	T <sub>opr.</sub>	-25 to +85	°C
Storage Temperature Range	T <sub>stg.</sub>	-40 to +100	°C
Lead Soldering Temp. (1.6mm from body) for 5 seconds		260	°C

### Electrical and Optical Characteristics:

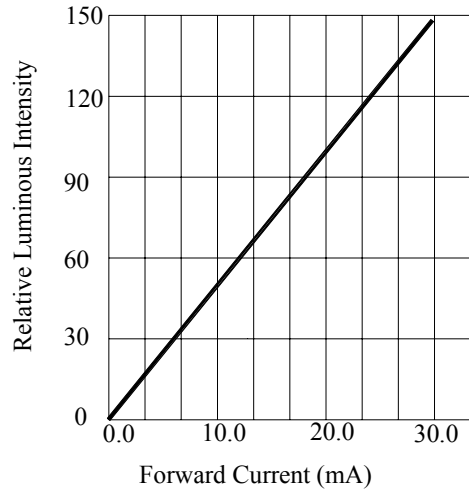
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I <sub>v</sub>	I <sub>f</sub> =20mA	30.0	100		mcd
Forward Voltage	V <sub>f</sub>	I <sub>f</sub> =20mA		2.1	2.6	V
Peak Wavelength	λ <sub>P</sub>	I <sub>f</sub> =20mA		635		nm
Dominant Wavelength	λ <sub>D</sub>	I <sub>f</sub> =20mA		626		nm
Reverse Current	I <sub>r</sub>	V <sub>r</sub> =5V			100	μA
Viewing Angle	2θ 1/2	I <sub>f</sub> =20mA		25		deg
Spectrum Line Halfwidth	Δλ	I <sub>f</sub> =20mA		35		nm

# MC3750

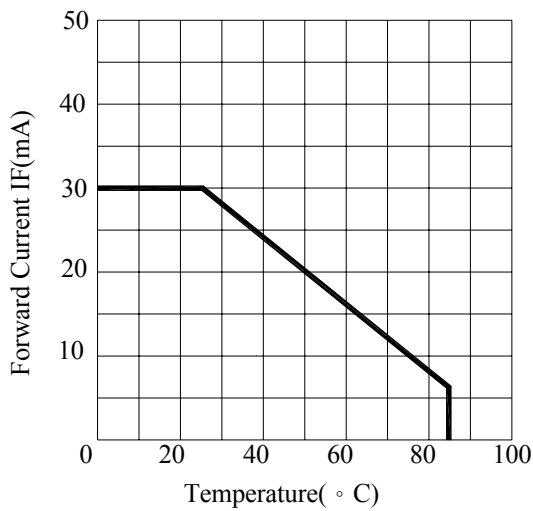
## Typical Characteristic Curves:



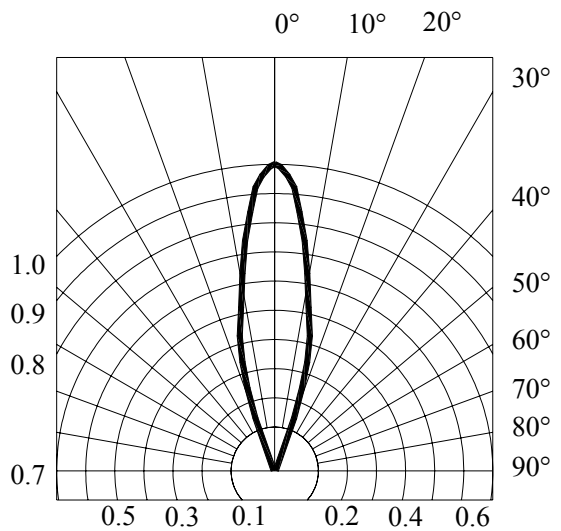
**FORWARD CURRENT VS. APPLIED VOLTAGE**



**FORWARD CURRENT VS. LUMINOUS INTENSITY**



**FORWARD CURRENT VS. AMBIENT TEMPERATURE**



**RADIATION DIAGRAM**