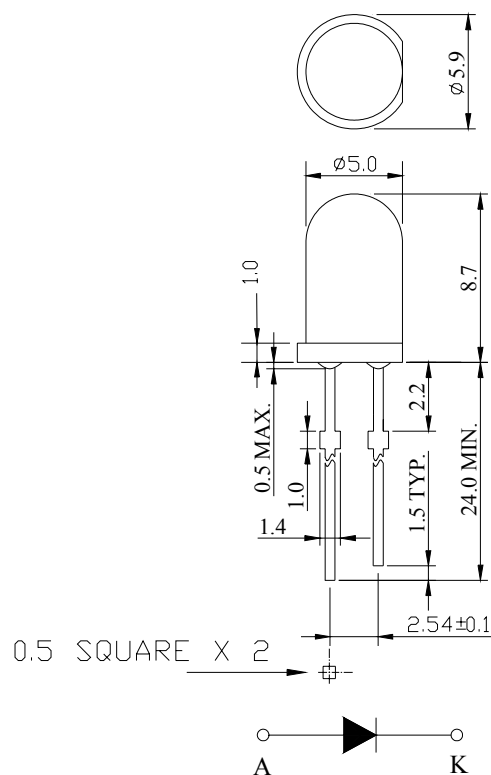


Part Number: MC3750

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 ± 0.25 mm UNLESS OTHERWISE NOTED.

MC3750



Absolute Maximum Ratings at Ta=25 °C

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

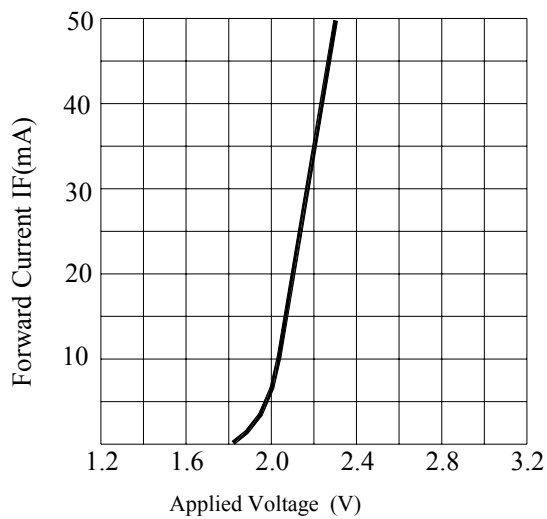
Electrical and Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _f =20mA	30.0	100		mcd
Forward Voltage	V _f	I _f =20mA		2.1	2.6	V
Peak Wavelength	λ _P	I _f =20mA		635		nm
Dominant Wavelength	λ _D	I _f =20mA		626		nm
Reverse Current	I _r	V _r =5V			100	μA
Viewing Angle	2 θ 1/2	I _f =20mA		25		deg
Spectrum Line Halfwidth	Δλ	I _f =20mA		35		nm

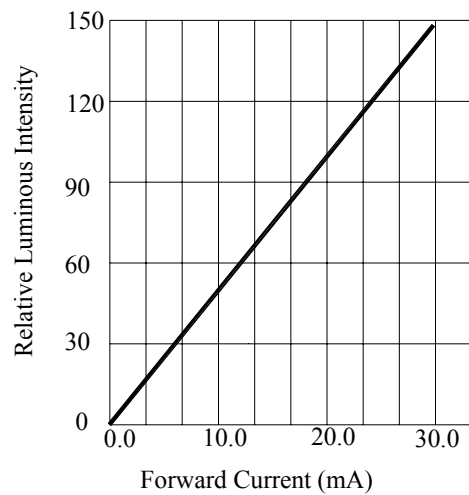
MC3750



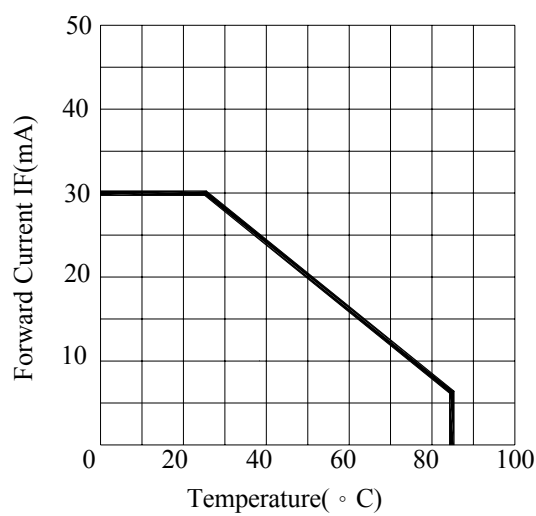
Typical Characteristic Curves:



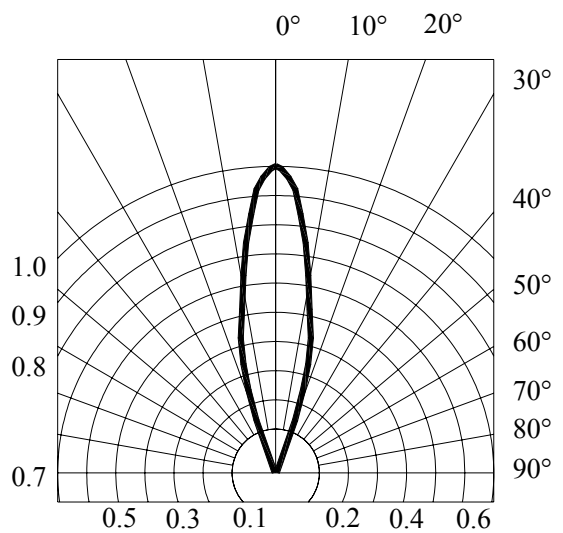
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RADIATION DIAGRAM