

GaAlAs HIGH POWER SIDE LOOK PACKAGE INFRARED EMITTING DIODE

MIE-144H4

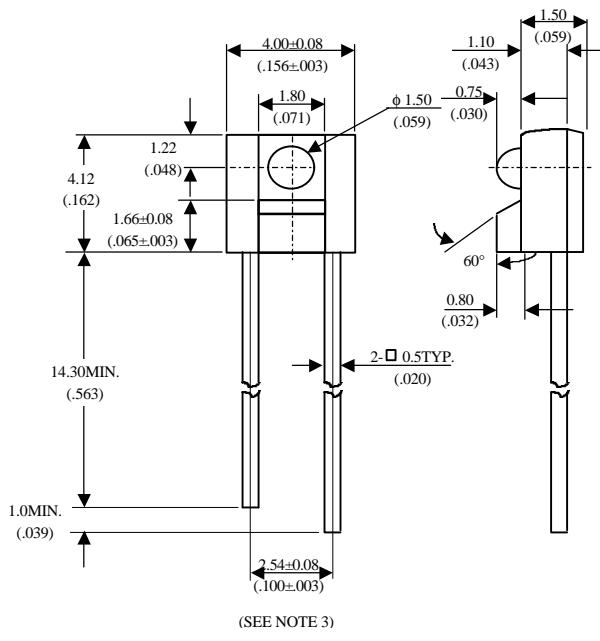
Description

The MIE-144H4 is a GaAlAs infrared emitting diode, molded in clear, lensed side looking package.

The MIE-144H4 provides a broad range of intensity selection.

Package Dimensions

Unit: mm(inches)



C ————— A

Notes :

1. All dimensions are in millimeters.(inches).
2. Protruded resin under flange is 1.5 mm (0.059") max.
3. Lead spacing is measured where the leads emerge from the package.

Absolute Maximum Ratings

@ $T_A=25^\circ\text{C}$

Parameter	Maximum Rating	Unit
Power Dissipation	75	mW
Peak Forward Current	1	A
Continuos Forward Current	50	mA
Reverse Voltage	5	V
Operating Temperature Range	-55°C to +100°C	
Storage Temperature Range	-55°C to +100°C	
Lead Soldering Temperature	260°C for 5 seconds	



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Optical-Electrical Characteristics

 @ $T_A=25^\circ\text{C}$

Parameter	Test Conditions	Symbol	Min.	Typ .	Max.	Unit
Radiant Incidence	$I_F=20\text{mA}$	E_e	-	0.8	-	mW/cm^2
Forward Voltage	$I_F=20\text{mA}$	V_F	-	1.5	1.6	V
Reverse Current	$V_R=5\text{V}$	I_R	-	-	100	μA
Peak Wavelength	$I_F=20\text{mA}$	λ_p	-	850	-	nm
Spectral Bandwidth	$I_F=20\text{mA}$	$\Delta\lambda$	-	30	-	nm
Half View Angle	$I_F=20\text{mA}$	$2\theta_{1/2}$	-	80	-	deg .

Typical Optical-Electrical Characteristic Curves

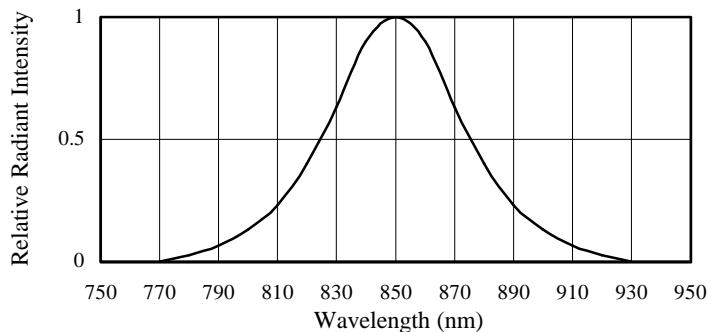


FIG.1 SPECTRAL DISTRIBUTION

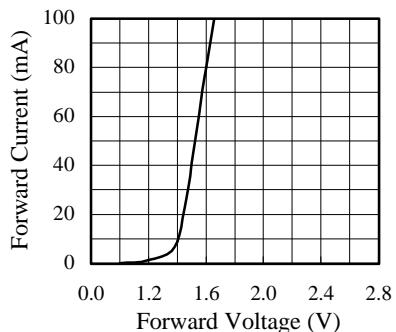
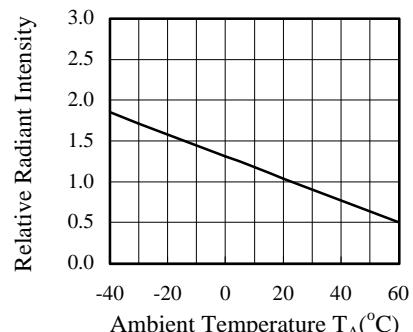
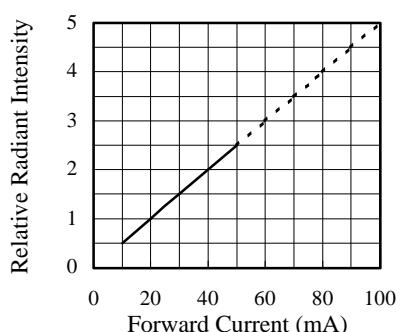
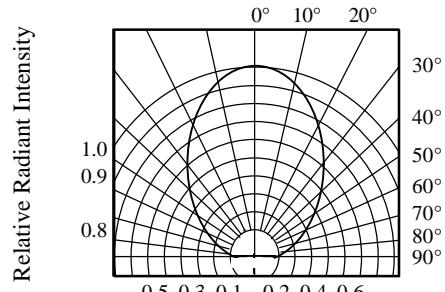

 FIG.2 FORWARD CURRENT VS.
FORWARD VOLTAGE

 FIG.3 RELATIVE RADIANT INTENSITY
VS. AMBIENT TEMPERATURE

 FIG.4 RELATIVE RADIANT INTENSITY
VS. FORWARD CURRENT


FIG.5 RADIATION DIAGRAM