

# **GaAlAs SIDE LOOK PACKAGE INFRARED EMITTING DIODE**

**MIE-114L3**

## **Description**

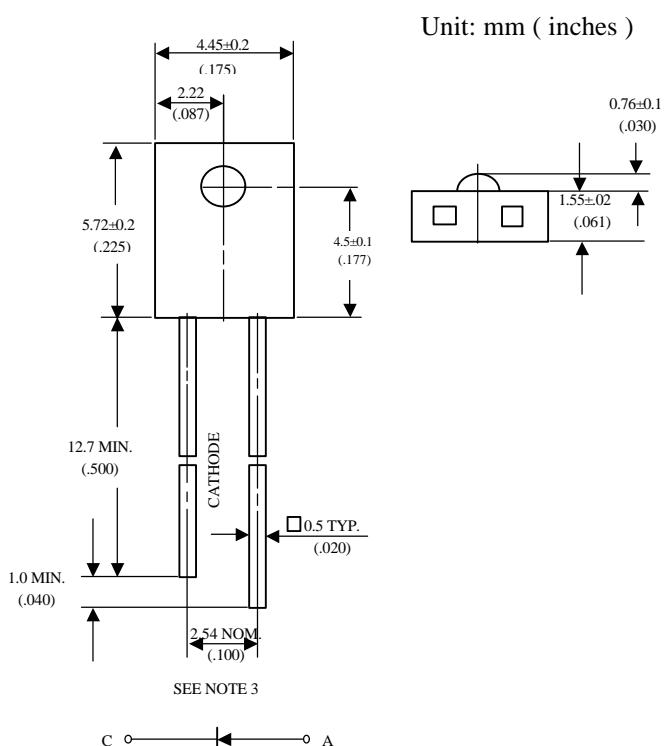
The MIE-114L3 is a GaAlAs infrared emitting diode molded in clear, lensed side looking package .

The MIE-114L3 provides a broad range of intensity selection .

## **Features**

- Selected to specific on-line intensity and radiant intensity ranges
- Low cost, plastic side looking package
- Mechanically and spectrally matched to the MID-11422 of phototransistor .

## **Package Dimensions**



### NOTES :

1. Tolerance is  $\pm 0.25$  mm (.010") unless otherwise noted.
2. 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	



Unity Opto Technology Co., Ltd.

02/04/2002

**Optical-Electrical Characteristics**

 @  $T_A=25^\circ C$ 

Parameter	Test Conditions	Symbol	Min.	Typ .	Max.	Unit
Radiant Incidence	$I_F=20mA$	$E_e$	-	0.6	-	$mW/cm^2$
Forward Voltage	$I_F=20mA$	$V_F$	-	1.4	1.6	V
Reverse Current	$V_R=5V$	$I_R$	-	-	100	$\mu A$
Peak Wavelength	$I_F=20mA$	$\lambda_p$	-	880	-	nm
Spectral Bandwidth	$I_F=20mA$	$\Delta\lambda$	-	60	-	nm
View Angle	$I_F=20mA$	$2\theta_{1/2}$	-	80	-	deg .

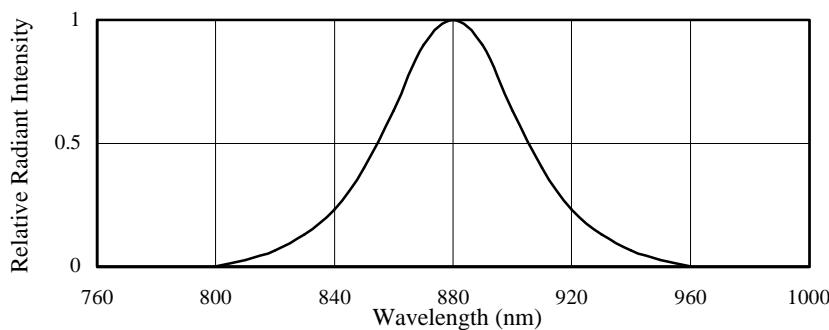
**Typical Optical-Electrical Characteristic Curves**


FIG.1 SPECTRAL DISTRIBUTION

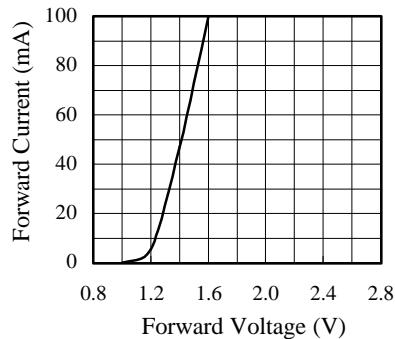
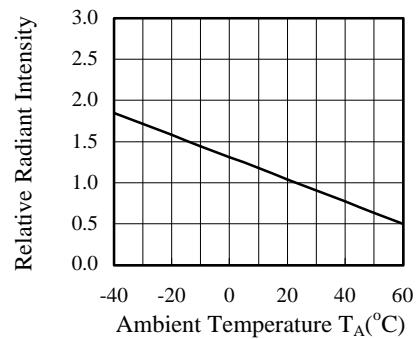
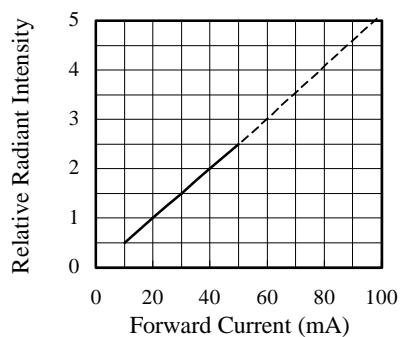
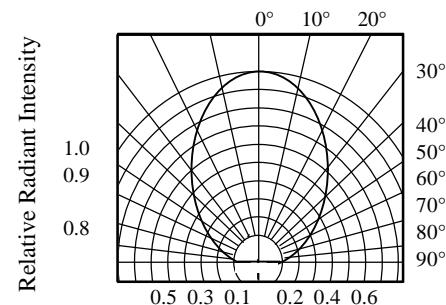

 FIG.2 FORWARD CURRENT VS.  
FORWARD VOLTAGE

 FIG.3 RELATIVE RADIANT INTENSITY  
VS. AMBIENT TEMPERATURE

 FIG.4 RELATIVE RADIANT INTENSITY  
VS. FORWARD CURRENT


FIG.5 RADIATION DIAGRAM