

GaAlAs T-1 3/4 PACKAGE INFRARED EMITTING DIODE

MIE-516L3U

Description

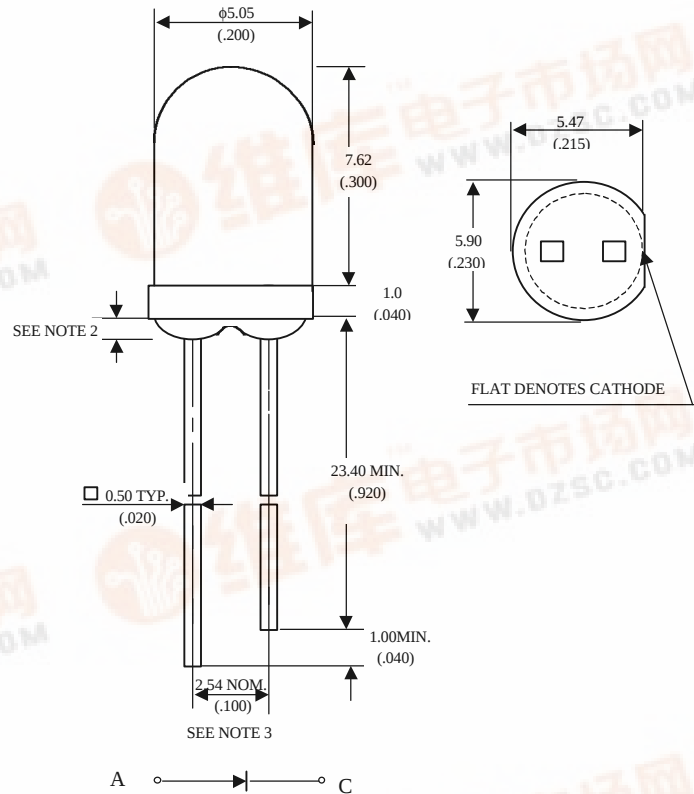
The MIE-516L3U is infrared emitting diodes in GaAlAs technology molded in pastel blue transparent package.

Features

- Suitable for DC and high pulse current operation
- Standard T-1 3/4 (φ 5mm) package
- Peak wavelength $\lambda_p = 880 \text{ nm}$
- Good spectral matching to si-photodetector
- Radiant angle : 16°

Package Dimensions

Unit: mm (inches)



Notes :

1. Tolerance is $\pm 0.25 \text{ mm}$ (.010") unless otherwise noted.
2. Protruded resin under flange is 1.5 mm (.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	120	mW
Peak Forward Current(300pps,10 μ s pulse)	1	A
Continuos Forward Current	100	mA
Reverse Voltage	5	V
Operating Temperature Range	-55°C to $+100^\circ\text{C}$	
Storage Temperature Range	-55°C to $+100^\circ\text{C}$	
Lead Soldering Temperature	260 $^\circ\text{C}$ for 5 seconds	

Optical-Electrical Characteristics

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

Parameter	Test Conditions	Symbol	Min.	Typ .	Max.	Unit
Radiant Intensity	$I_F=20\text{mA}$	I_e		3.2	-	mW/sr
Forward Voltage	$I_F=50\text{mA}$	V_F		1.4	1.7	V
	$I_F=200\text{mA}$			1.85	2.10	
Reverse Current	$V_R=5\text{V}$	I_R			100	μA
Peak Wavelength	$I_F=20\text{mA}$	λ		880		nm
Spectral Bandwidth	$I_F=20\text{mA}$	$\Delta\lambda$		60		nm
View Angle	$I_F=20\text{mA}$	$2\theta_{1/2}$	-	16	-	deg.

Typical Optical-Electrical Characteristic Curves

