

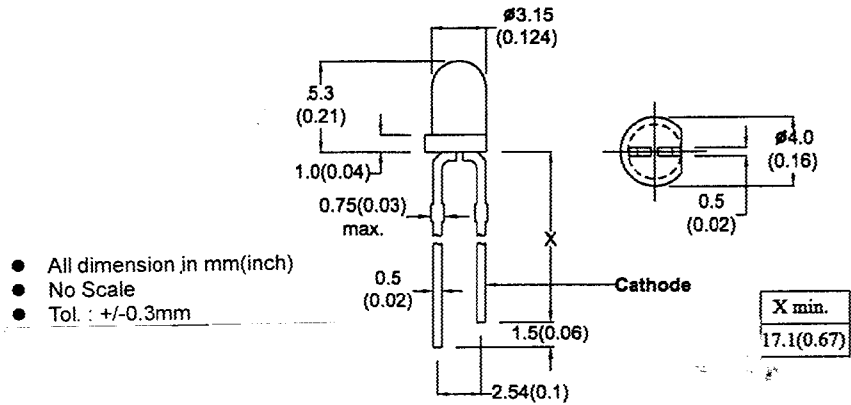
MICRO ELECTRONICS MICRO

MI31TA

INFRARED
EMITTING
DIODE

DESCRIPTION

MI31T & MIB31TA are GaAlAs infrared emitting diode molded in 3.2mm diameter clear transparent lens.



ABSOLUTE MAXIMUM RATINGS

| | |
|--|------------------|
| Forward Current (Continuous) | 80mA |
| Pulse Forward Current | 1A* |
| Reverse Voltage (Continuous) | 5V |
| Power Dissipation | 150mW |
| Operating Temperature Range | -25 to +85°C |
| Lead Soldering Temperature (1/16" from body) | 260°C for 5 sec. |

* Pulse Width = 10μs, Duty Ratio = 0.01.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER | SYMBOL | MI31T | MI31TA | UNIT | CONDITIONS |
|---------------------------|--------|-------|--------|--------|------------|
| Radiant Power Output | MIN | 1.5 | 1.2 | mW | IF=20mA |
| | TYP | 1.7 | 1.5 | mW | IF=20mA |
| Forward Voltage | TYP | 1.2 | 1.3 | V | IF=20mA |
| | MAX | 1.6 | 1.8 | V | IF=20mA |
| Reverse Current | MAX | 100 | 100 | μA | VR=5V |
| Half Intensity Beam Angle | TYP | 40 | 40 | degree | IF=20mA |
| Peak Wavelength | TYP | 940 | 880 | nm | IF=20mA |
| Spectrum Line Half Width | TYP | 45 | 70 | nm | IF=20mA |

MICRO ELECTRONICS LTD.

36, Hung To Road, Microtron Building, Kwun Tong, Kowloon, Hong Kong.
Kwun Tong P.O. Box 69477 Hong Kong. Fax No. 2341 0321 Telex: 43510 Micro Hx. Tel: 2343 0181-5

REV. A.

MI31TA

