ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089
http://www.nteinc.com

NTE3025
Light Emitting Diode (LED)
T–1 3/4 (5mm)

Description:

The NTE3025 is a deep red Light Emitting Diode in a T–1 3/4 (5mm) type package with a tinted, diffused red lens designed for use in applications such as instruments, printed circuit board indicators, and board mounted panel displays.

Features:

- Low Power Consumption
- High Intensity
- IC Compatible/Low Current Requirements
- Versatile Mounting on P.C. board or panel
- Reliable and Rugged
- Standard Red Light Source with Red Diffused Lens

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

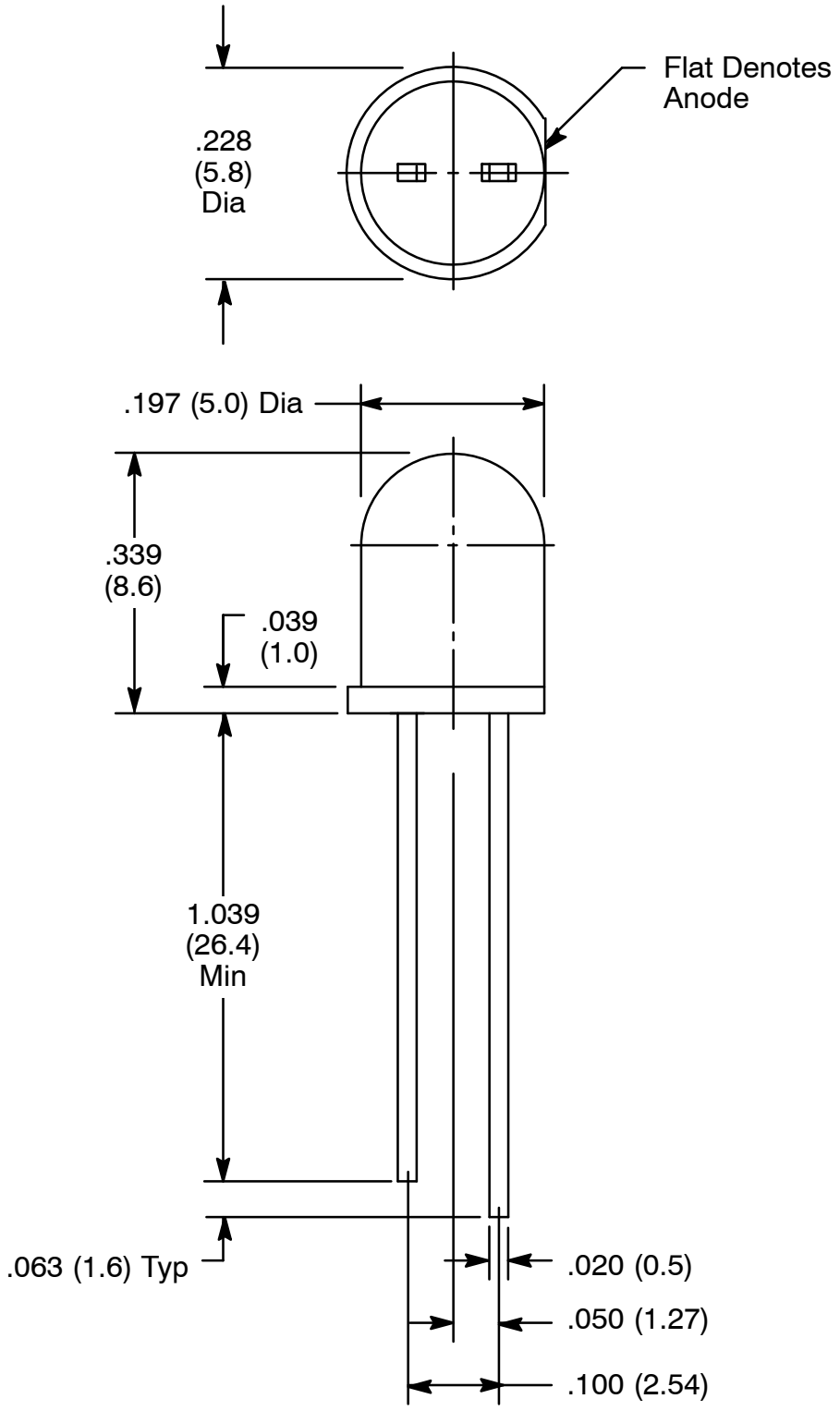
Power Dissipation, P_D 80mW
Peak Forward Current, $I_{F(Peak)}$ 100mA
Continuous Forward Current, I_F 25mA
Derate Linearly Above 30°C . . . . . 0.8mA/°C
Reverse Voltage, V_R 5V
Electrostatic Discharge . . . . . 2000V (HBM)
Operating Temperature Range, T_A . . . . . –20° to +80°C
Storage Temperature Range, T_{stg} . . . . . –30° to +100°C
Lead Temperature (During Soldering, .063 in. (1.6mm) from Body for 5sec), T_L . . . . . +260°C

Note 1. $I_{F(Peak)}$ Conditions: Pulse Width ≤ 100μs, Duty Cycle ≤1%.

Electrical/Optical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F = 20mA	2.0	–	2.2	V
Luminous Intensity	I_V	I_F = 20mA	200	–	300	mcd
Peak Emission Wavelength	λp		650	655	660	nm
Viewing Angle	$2\,\theta^1/_2$		–	35	–	deg.
Reverse Current	I_R	V_R = 5V	–	–	5	μA

Rev. 01–23



Tolerance ±.010 (.254)