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

NTE3025
Light Emitting Diode (LED)

Description:

The NTE3025 is a red Light emitting Gallium Arsenide Phosphide diode in a T–1 3/4 (5mm) type package 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

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

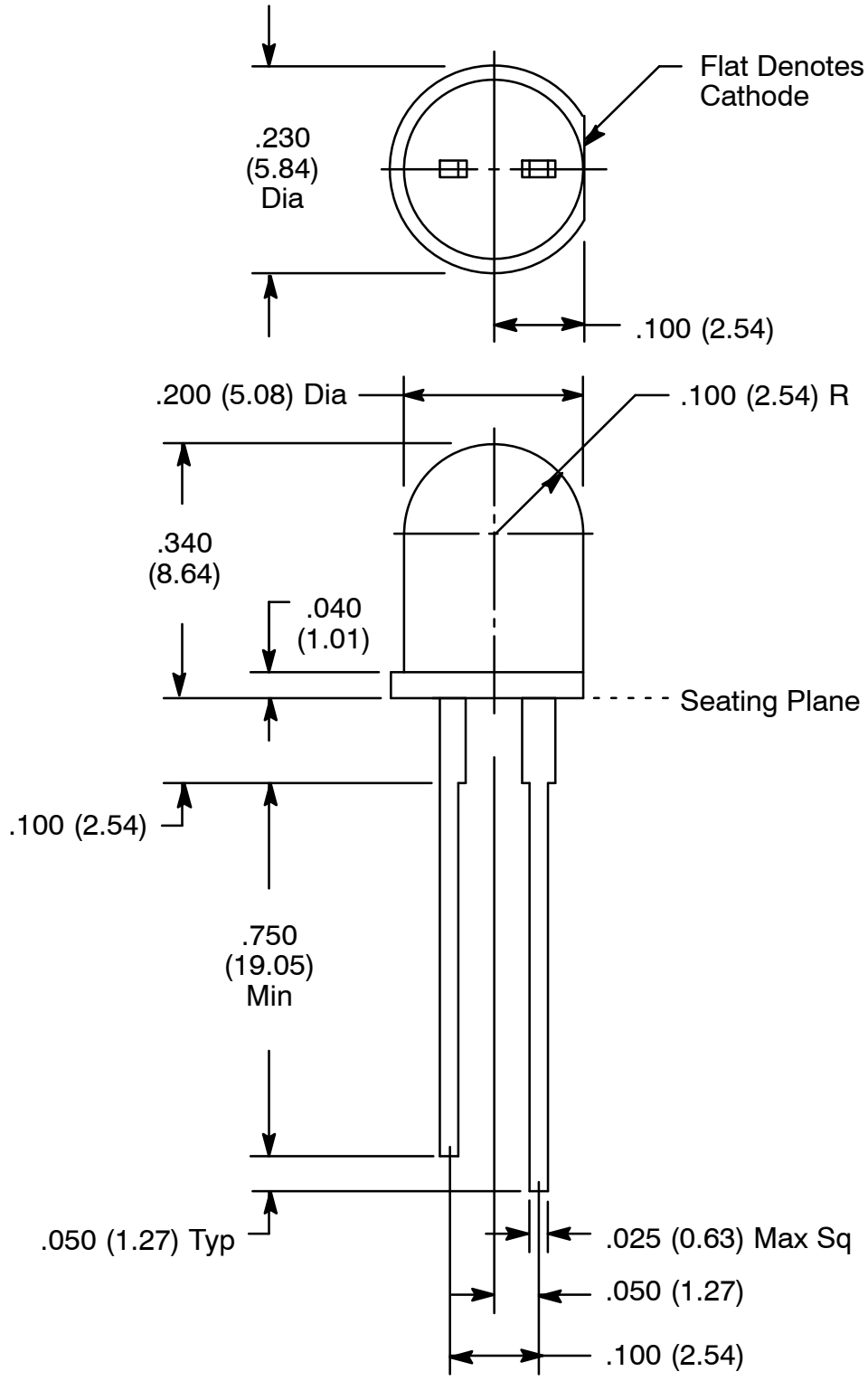
Power Dissipation, P_D 110mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width), $I_{F(Peak)}$ 200mA
Continuos Forward Current, I_F 40mA
Derate Linearly Above 25°C . . . . . 0.5mA/°C
Reverse Voltage, V_R 5V
Operating Temperature Range, T_A . . . . . –55° to +100°C
Storage Temperature Range, T_{stg} . . . . . –55° to +100°C
Lead Temperature (During Soldering, .063 in. (1.6mm) from Body for 5sec), T_L . . . . . +260°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Luminous Intensity	I_V	I_F = 10mA, Note 1	0.3	1.1	–	mcd
Viewing Angle	$2\Theta^1/_2$	Note 2	–	36	–	deg.
Peak Emission Wavelength	λP		–	655	–	nm
Spectral Line Half Width	$\Delta\lambda$		–	40	–	nm
Forward Voltage	V_F	I_F = 20mA	–	1.7	2.0	V
Reverse Current	I_R	V_R = 5V	–	–	100	μA
Capacitance	C	V_F = 0, f = 1MHz	–	30	–	pF

Note 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) eye–response curve.

Note 2. $\Theta^1/_2$ is the off–axis angle at which the liminous intensity is half the axial luminous intensity.



Tolerance ±.010 (.254)