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## NTE3024 Light Emitting Diode (LED)

**Description:**

The NTE3024 is a discrete LED indicator device in a 5mm (T-1 3/4) type package. This green source color device is made with Gallium Phosphide on Gallium Phosphide Green Light Emitting Diode.

**Features:**

- Low Power Consumption
- General Purpose Leads
- Reliable and Rugged
- Long Life - Solid State Reliability
- RoHS Compliant

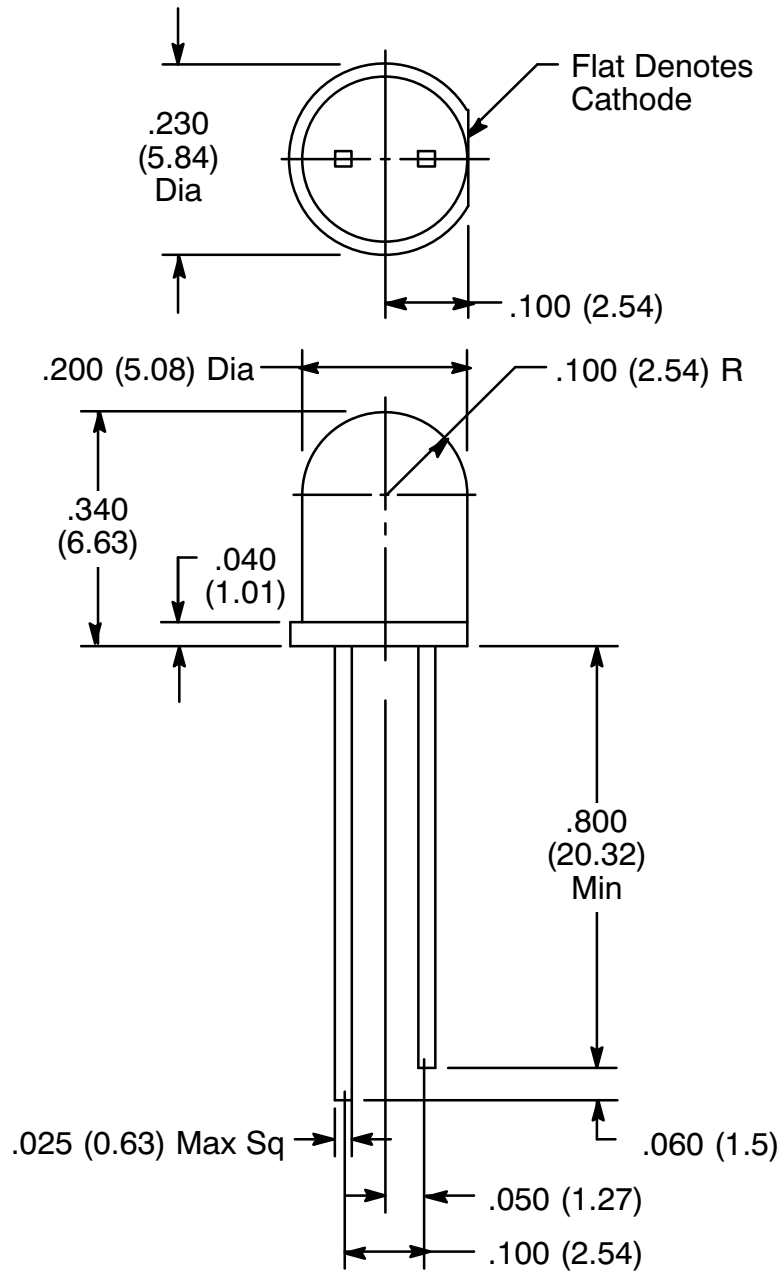
**Absolute Maximum Ratings:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Power Dissipation, $P_D$ .....	105mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width), $I_{F(\text{Peak})}$ .....	140mA
Continuos Forward Current, $I_F$ .....	25mA
Reverse Voltage, $V_R$ .....	5V
Operating Temperature Range, $T_A$ .....	$-40^\circ$ to $+85^\circ\text{C}$
Storage Temperature Range, $T_{\text{stg}}$ .....	$-40^\circ$ to $+85^\circ\text{C}$
Lead Temperature (During Soldering), $T_L$	
2mm below package base for 3 seconds .....	$+260^\circ\text{C}$
5mm below package base for 5 seconds .....	$+260^\circ\text{C}$

**Electrical/Optical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Luminous Intensity	$I_V$	$I_F = 10\text{mA}$	5	20	-	mcd
Viewing Angle	$2\theta^{1/2}$	Note 1	-	30	-	deg.
Peak Emission Wavelength	$\lambda_P$	$I_F = 20\text{mA}$	-	565	-	nm
Dominant Wavelength	$\lambda_D$	$I_F = 20\text{mA}$	-	568	-	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F = 20\text{mA}$	-	30	-	nm
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	-	2.2	2.5	V
Reverse Current	$I_R$	$V_R = 5\text{V}$	-	-	10	$\mu\text{A}$
Capacitance	C	$V_F = 0, f = 1\text{MHz}$	-	15	-	pF

Note 1.  $\theta^{1/2}$  is the off-axis angle at which the liminous intensity is half the axial luminous intensity.



Tolerance  $\pm .010$  (.254)