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NTE3029B
Infrared-Emitting Diode

Description:
The NTE3029B is a 940nm LED encapsulated in a clear, wide angle, sidelooker package.

Features:
- Good Optical to Mechanical Alignment
- High Irradiance Level

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

Forward Current, I_F
- Continuous 60mA
- Peak (PW, 1µs; ≤ 33Hz) 3A

Reverse Voltage, V_R 6V

Power Dissipation, P_D 100mW
- Derate Linearly Above 25°C . . . . . 1.33mW/°C

Operating Temperature Range, T_{opr} . . . . . -55° to +100°C

Storage Temperature Range, T_{stg} . . . . . -55° to +100°C

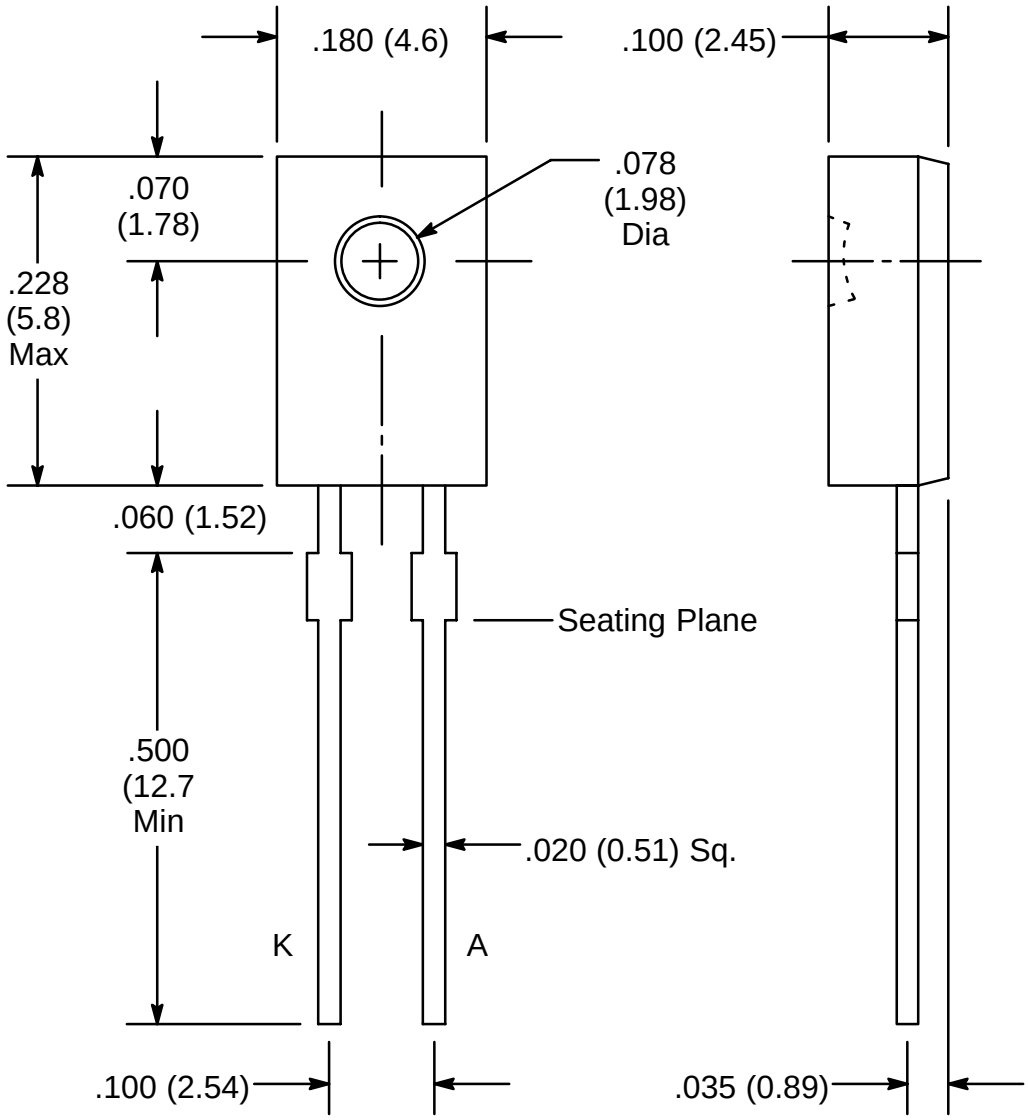
Lead Temperature (During Soldering, 1/16” from case, 5sec), T_L . . . . . +240°C

Electrical Characteristics: (T_A = +25°C, Note 1 unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F = 60mA	-	-	1.7	V
Reverse Breakdown Voltage	V_R	I_R = 10µA	6	-	-	V
Reverse Leakage Current	I_R	V_R = 5V	-	-	10	µA
Peak Emission Wavelength	λ_P	I_F = 100mA	-	940	-	nm
Emission Angle at 1/2 Power	θ		-	±35	-	deg.
Radiant Intensity	I_e	I_F = 20mA, Note 2	0.28	-	-	mW/sr

Note 1. All measurements are made under pulse conditions.

Note 2. Radient Intensity is measured with a 0.45cm aperture placed 1.6cm from the tip of the lens centerline perpendicular to the plane of the leads.


.180 (4.6)
.100 (2.45)
.070
(1.78)
.078
(1.98)
Dia
.228
(5.8)
Max
.060 (1.52)
Seating Plane
.500
(12.7
Min
.020 (0.51) Sq.
K
A
.100 (2.54)
.035 (0.89)