# 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)

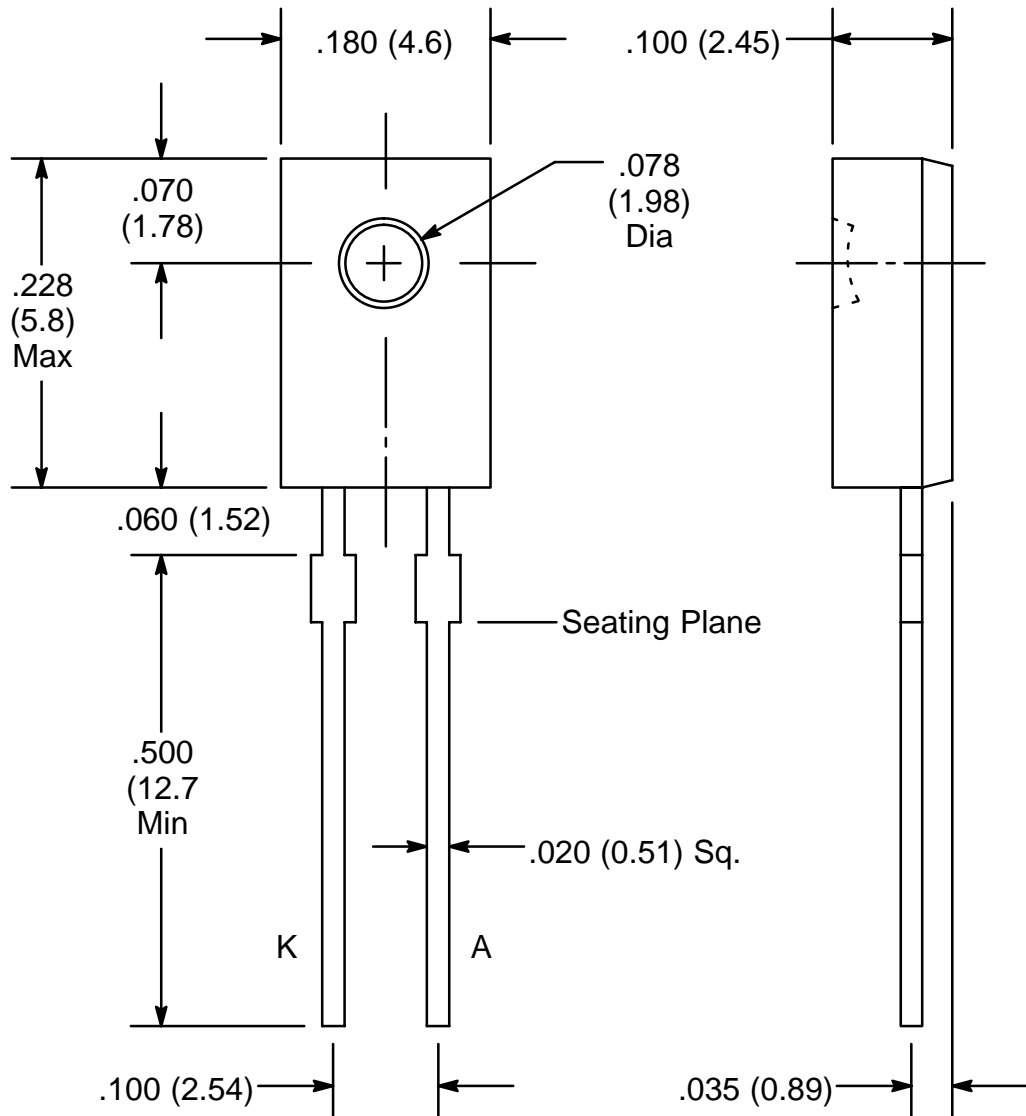Forward Current, $I_F$
     Continuous . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 60mA
     Peak (PW, 1μs; ≤ 33Hz) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3A
Reverse Voltage, $V_R$ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 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 | $\lambda_P$ | $I_F$ = 100mA | - | 940 | - | nm |
| Emission Angle at 1/2 Power | $\theta$ | | - | ±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)

# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for* NTE *manufacturer:*

Other Similar products are found below :

02-LDR1  02-LDR12  02-LDR13  02-LDR14  02-LDR15  02-LDR2  02-LDR20  02-LDR21  02-LDR22  02-LDR23  02-LDR3  02-LDR4  02-N101-1  02-N103-1  04-04180  04-06100SS  04-ACC10  04-ACC20  04-ACC30  04-ACC40  04-CCL3129  04-CW07-50  04-CW14-50  04-ES-1000  04-ESNF1000-10  04-ESNF-1000L  04-ESNF-250L  04-ESNF-375L  04-MP10009  04-SCBW19L-GR  04-SCBW25L-BK  04-SCBW25L-GR  04-SCBW25L-WH  04-SCBW32L-BK  04-SCBW32L-GR  04-SCBW32L-OR  04-SCBW32L-WH  04-SCBW50L-GR  04-SCBW50L-OR  04-SCBW6C-GR  04-SCBW6C-OR  04-SCBW6C-WH  04-SCW10C-BK  04-SCW10C-GR  04-SCW10C-OR  04-SCW19L-OR  04-SCW5C-WH  04-SL1.00-G  04-SL1.00-G-10  04-SL1.00-G-5