NTE30001
Infrared Emitting Diode
Bi–Directional

Features:

- Bi–Directional Light Emission Type
- High Output: Φ_e = 1mW Typ at I_F = 20mA

Applications:

- Light Source for Tape End Detector for VHS type VCR's

## Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)
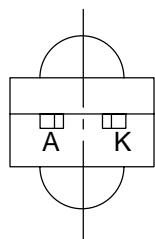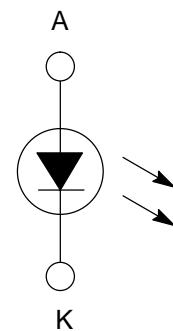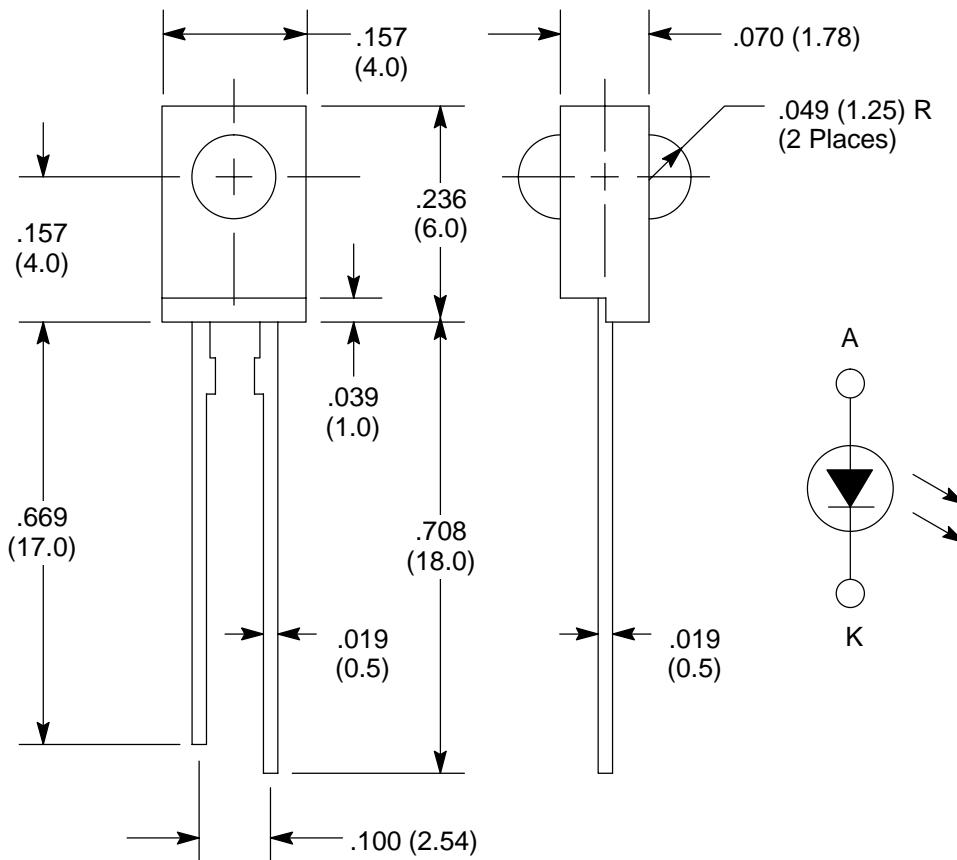
Power Dissipation, P_D 75mW

Forward Current, I_F 50mA

Peak Forward Current (Note 1), I_{FM} 1A

Reverse Voltage, V_R 6V

Operating Junction Temperature Range, T_{opr} .... −25°C to +85°C

Storage Temperature Range, T_{stg} .... −40°C to +85°C

Lead Temperature (During Soldering, Note 2), T_L .... +260°C

Note 1. Pulse Width ≤ 100µs, Duty Ratio = 0.01

Note 2. For 3 seconds at a distance of 2.5mm from the bottom face of the resin package.

Electro–Optical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F = 20mA	–	1.2	1.4	V
Peak Forward Voltage	V_{FM}	I_{FM} = 500mA	–	3.0	4.0	V
Reverse Current	I_R	V_R = 3V	–	–	10	µA
Terminal Capacitance	C_t	V = 0, f = 1MHz	–	50	100	pF
Radiant Flux	Φ_e	I_F = 20mA	0.7	1.0	2.0	mW
Peak Emission Wavelength	λp	I_F = 5mA	–	950	–	nm
Half Intensity Wavelength	$\Delta\lambda$	I_F = 5mA	–	45	–	nm

.157
(4.0)

.070 (1.78)

.049 (1.25) R
(2 Places)

.157
(4.0)

.236
(6.0)

.039
(1.0)

.708
(18.0)

.669
(17.0)

.019
(0.5)

.019
(0.5)

.100 (2.54)

A

K

A   K

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