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NTE3033 Infrared Photodiode

Description:

The NTE3033 is a high output, high speed silicon photodiode mounted in a side-viewing plastic package with visible light cutoff filter.

Features:

- Visible Ray Cutoff Mold Type
- Clear Lens Type
- High Speed Response
- High Output Power

Applications:

- Optical Transmission
- Optic Receiver Modules

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

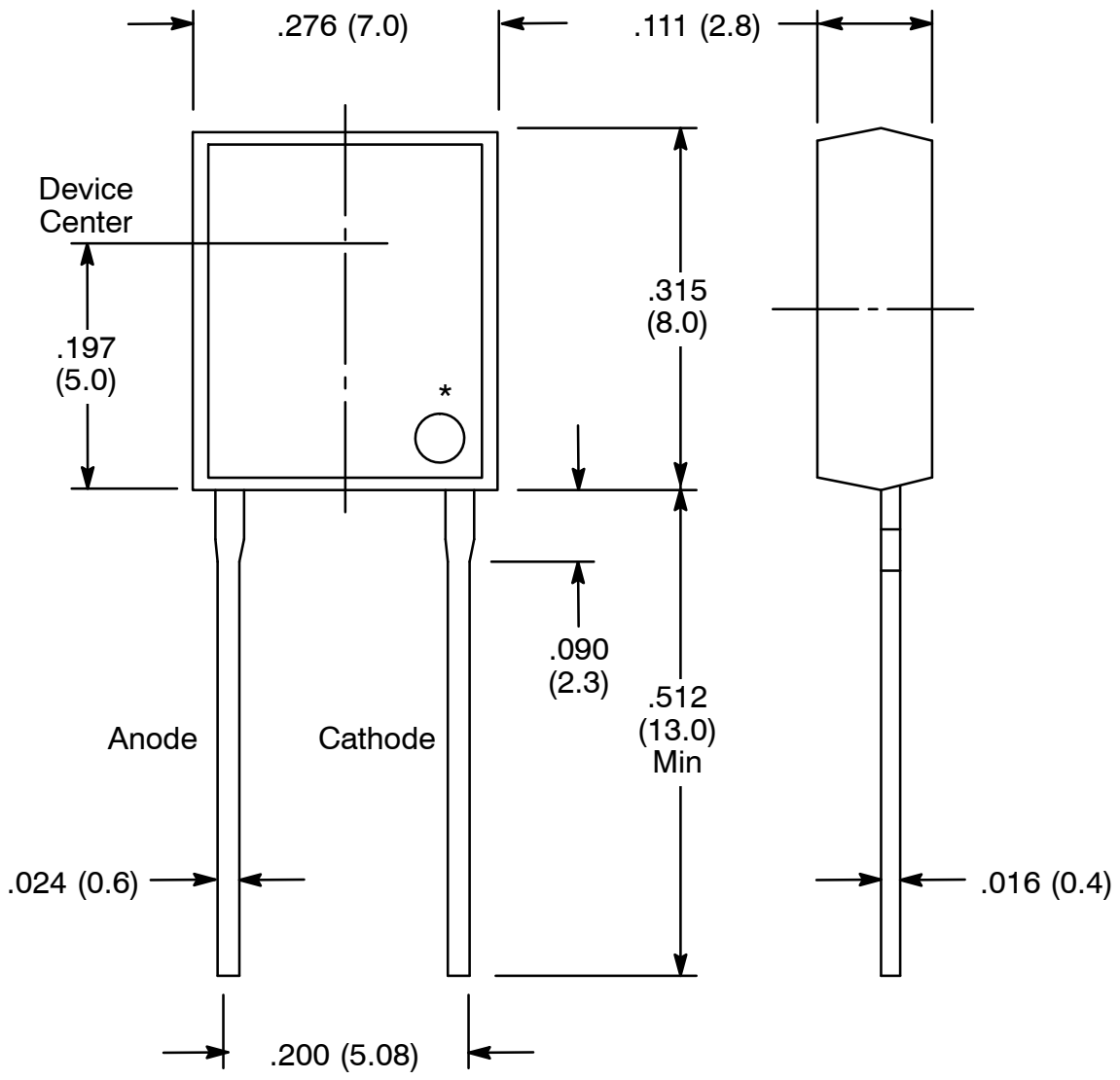
Reverse Voltage, V_R 35V
 Power Dissipation, P_D 150mW
 Operating Temperature Range, T_{opr} -30° to $+70^\circ\text{C}$
 Storage Temperature Range, T_{stg} -40° to $+80^\circ\text{C}$
 Lead Temperature (During Soldering, 2mm from the package, 3sec Max.), T_L $+260^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Open Circuit Voltage	V_{CC}	$E_e = 0.5\text{mW}/\text{cm}^2$	-	0.35	-	V
Short Circuit Current	I_{SC}	$E_e = 0.5\text{mW}/\text{cm}^2$	20	32	-	μA
Dark Current	I_D	$V_R = 10\text{V}, E_e = 0.5\text{mW}/\text{cm}^2$	-	-	30	nA
Terminal Capacitance	C_t	$V_R = 3\text{V}, f = 1\text{MHz}$	-	175	-	pF
Response Time	t_r/t_f	$V_R = 10\text{V}, R_L = 1000\Omega$	-	50/50	-	ns
Spectral Sensitivity	λ		450 ~ 1050			nm
Peak Emission Wavelength	λ_p		-	900	-	nm
Half Angle	$\Delta\theta$		-	± 8	-	deg

Rev. 4-20





* Denotes Cathode mark