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RoHS 2002/95/EC

NTE3039
Silicon NPN Phototransistor 3mm (T1) Case

Description:

The NTE3039 is an NPN silicon phototransistor transfer molded in a 3mm (T1) clear plastic package. Transfer molding of this device assures superior optical centerline performance compared to other molding processes. Lead lengths are staggered to provide a simple method of polarity identification.

Features:

- 3mm (T1) Plastic Package
- 20° (Nominal) Acceptance Angle
- Consistent Optical Properties
- Wide Sensitivity Ranges

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

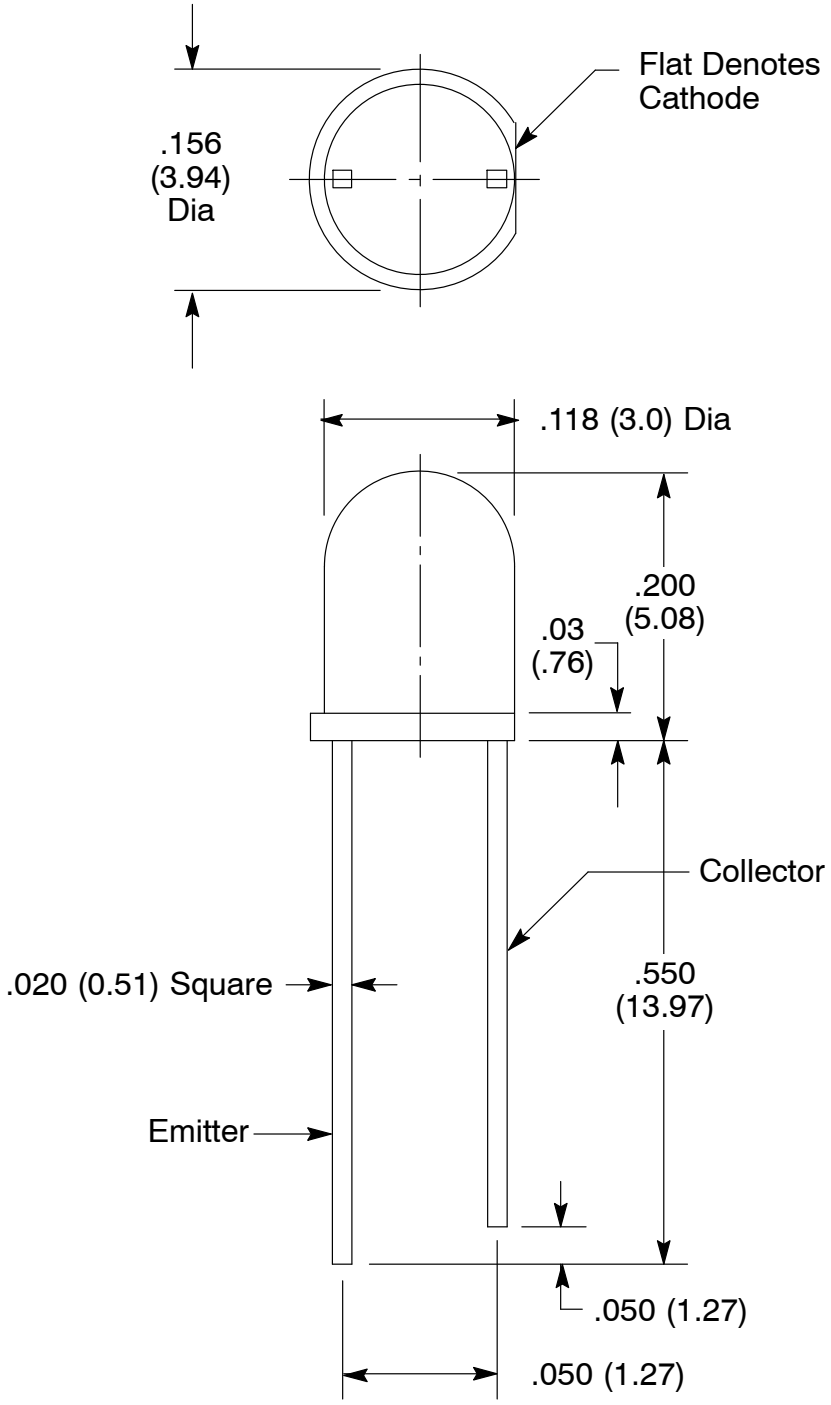
Collector–Emitter Voltage, V_{CEO} 30V
Emitter–Collector Voltage, V_{ECO} 5V
Collector Power Dissipation (Note 1), P_c 70mW
Operating Temperature Range, T_{opr} . . . . . –40° to +85°C
Storage Temperature Range, T_{stg} . . . . . –40° to +85°C
Lead Temperature (During Soldering, 1.5mm from body, 5sec max), T_L . . . . . +240°C

Note 1. Derate linearly from +25°C free–air temperature at the rate of 0.18 mW/°C.

Opto–Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Dark Current	I_D (I_{CEO})	V_{CE} = 15V, H = 0	–	–	100	nA
Light Current	I_L	V_{CE} = 5V, H = 5mW/cm^2, Note 2	7	–	14	mA
Collector–Emitter Breakdown Voltage	$V_{(BR)ceo}$	I_C = 100μA	30	–	–	V
Emitter–Collector Breakdown Voltage	$V_{(BR)eco}$	I_E = 100μA	5	–	–	V
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = I_L/8$, H mW/cm^2	–	–	0.4	V
Angular Response	∅	I_F = Constant, Note 3	–	20	–	degr
Rise Time	t_r	V_{CC} = 5V, I_L = 1mA, R_L = 1000Ω	–	15	–	μs
Fall Time	t_f		–	15	–	μs

Note 2. The radiation source is a tungsten lamp operating at a color temperature of 2870°K.
Note 3. Angular response is defined as the total included angle between the half sensitivity points.


Flat Denotes
Cathode
.156
(3.94)
Dia
.118 (3.0) Dia
.200
(5.08)
.03
(.76)
Collector
.020 (0.51) Square
.550
(13.97)
Emitter
.050 (1.27)
.050 (1.27)

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