ELECTRONICS, INC.
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NTE30046
Infrared Emitting Diode
3mm (T–1) Package Type

Features:
- Round Head with Flange
- Water Clear Lens

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

Power Dissipation, P_D 100mW
Forward Current, I_F
  Continuous 60mA
  Peak (Note 1) 1A
Reverse Voltage, V_R 5V
Operating Temperature Range, T_{opr} . . . . . –40° to +85°C
Storage Temperature Range, T_{stg} . . . . . –40° to +85°C
Lead Temperature (During Soldering, 3mm from case, 5sec max), T_L . . . . . +260°C

Note 1. Duty Ratio ≤ 1%, Pulse Width ≤ 100μs

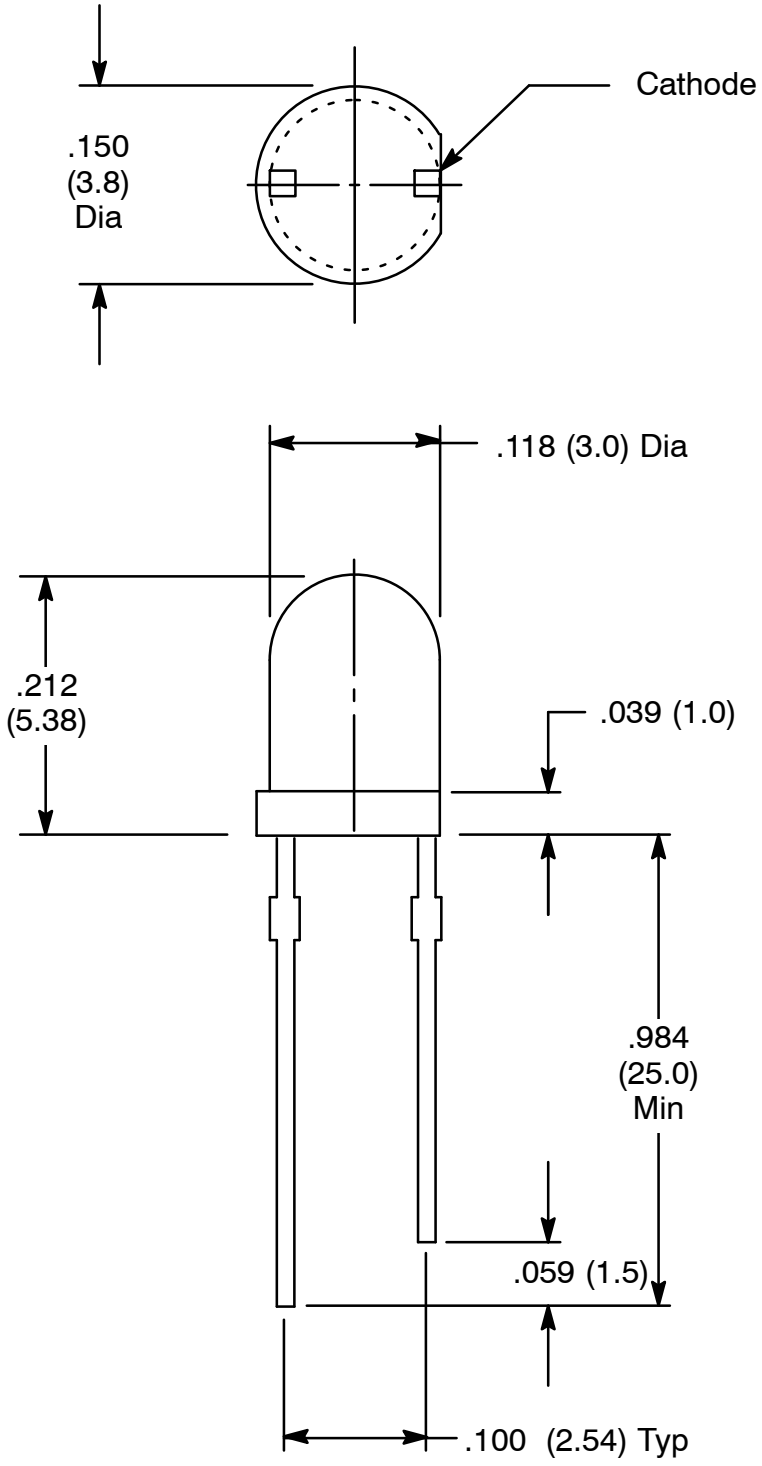
Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Radiant Intensity	I_E	I_F = 20mA	4	7	–	mw/sr
		I_F = 60mA	19	25	–	mw/sr
		I_F = 270mA, Note 1	–	50	–	mw/sr
Peak Emission Wavelength	λ_p	I_F = 20mA	–	940	–	nm
Spectrum Bandwidth	$\Delta\lambda$	I_F = 20mA	–	45	–	nm
Forward Voltage	V_F	I_F = 20mA	–	1.15	1.35	V
		I_F = 60mA	–	1.25	1.50	V
		I_F = 270mA, Note 1	–	1.60	2.00	V
Reverse Current	I_R	V_R = 5V	–	–	5	uA
Viewing Angle	2θ1/2	I_F = 20mA	–	30	–	degree

Note 1. Duty Ratio ≤ 1%, Pulse Width ≤ 100μs

Rev. 6–22

RoHS


Cathode
.150
(3.8)
Dia
.118 (3.0) Dia
.212
(5.38)
.039 (1.0)
.984
(25.0)
Min
.059 (1.5)
.100 (2.54) Typ