ELECTRONICS, INC.
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This device has been replaced by NTE30128

NTE30122
LED Indicator
Ultraviolet, 5mm

Features:
- High Intensity
- Normal T–1 3/4 (5mm) Diameter Package
- General Purpose Leads
- Reliable and Rugged

Applications:
- Identifies Counterfeit U.S. Currency
- Identification of UV Watermark on Credit Cards, Drivers Licenses, Passports, etc.
- UV Illumination of Detailed Seals, Stamps, Stickers, Images, and Multicolored Fibers on Visas, Passports and Currencies of Various Nations

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

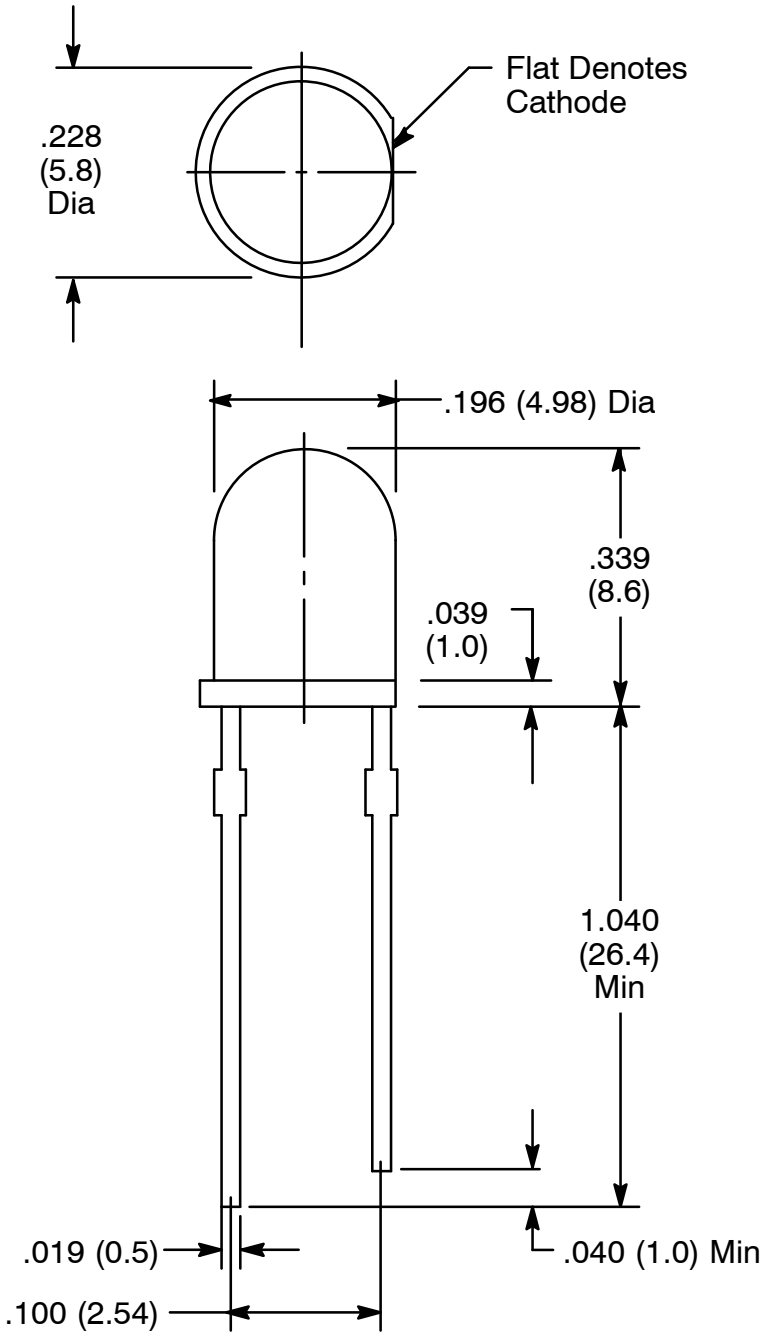
Power Dissipation, P_D 120mW
Peak Forward Current (1/10th Duty Cycle, 0.1ms Pulse Width), I_{FM} 150mA
Continuous Forward Current, I_F 35mA
Derate Linearly From +50°C . . . . . 0.4mA/°C
Reverse Voltage, V_R 5V
Operating Temperature Range, T_{opr} . . . . . –40° to +80°C
Storage Temperature Range, T_{stg} . . . . . –40° to +80°C
Lead Temperature (During Soldering, 4mm from Body, 5sec Max), T_L . . . . . +260°C

CAUTION: UV light can be harmful to the eyes even for a brief period. If it is necessary to view UV light, filtered glasses must be used. Affix a caution label if the UV light in your product can be viewed directly.

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Luminous Intensity	I_V	I_F = 20mA, Note 1	60	–	90	mcd
View Angle of Half Power	2 $\theta_{1/2}$	Note 2	10	15	20	deg
Peak Emission Wavelength	λ_P	I_F = 20mA	–	–	–	nm
Dominant Emission Wavelength	λ_d	I_F = 20mA, Note 3	380	–	385	nm
Spectral Line Half–Width	$\Delta\lambda$	I_F = 20mA	–	25	–	nm
Forward Voltage	V_F	I_F = 20mA	3.0	3.3	3.7	V
Reverse Current	I_R	V_R = 5V	–	–	10	µA

Note 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye–response curve.
Note 2. $\theta_{1/2}$ is the off–axis angle at which the luminous intensity is half the axial luminous intensity.
Note 3. The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelenght, which defines the color of the device.


Flat Denotes
Cathode
.228
(5.8)
Dia
.196 (4.98) Dia
.339
(8.6)
.039
(1.0)
1.040
(26.4)
Min
.019 (0.5)
.040 (1.0) Min
.100 (2.54)