



ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748-5089
<http://www.nteinc.com>



NTE30112 LED – Dual Color 5mm High Efficiency Red/Yellow Green

Features:

- RoHS Compliant
- White Diffused

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

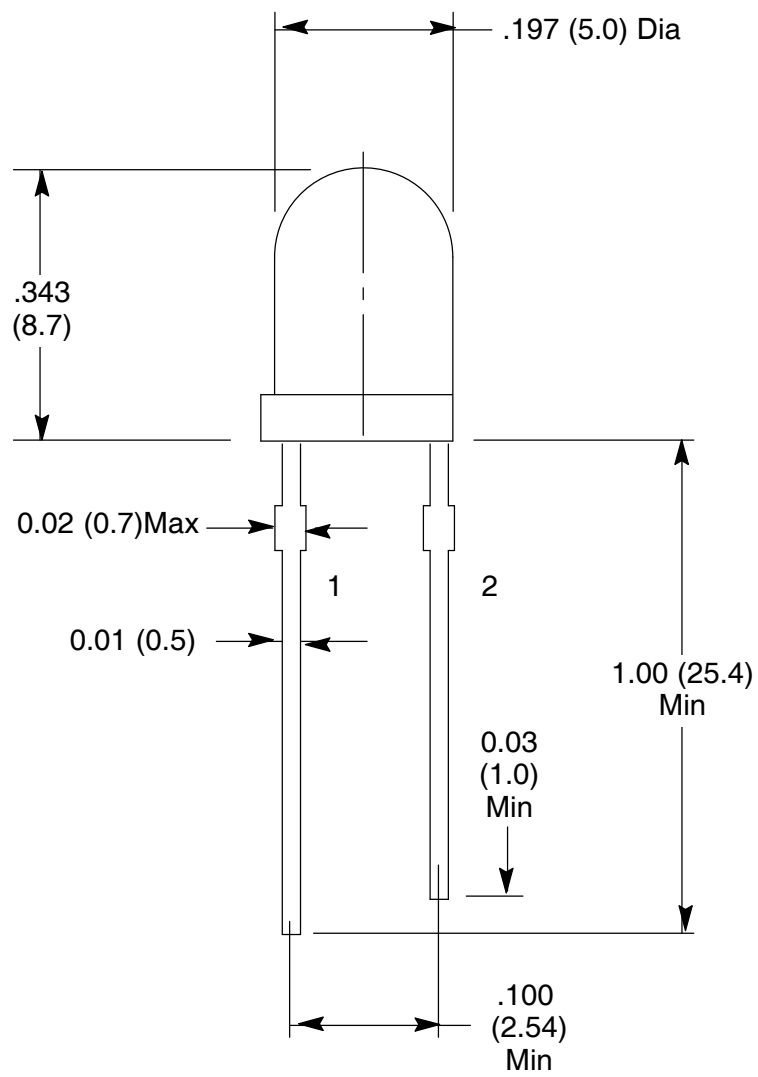
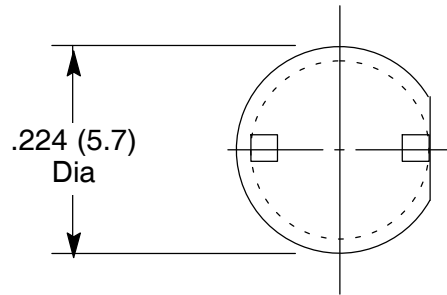
Power Dissipation, P_d	
High Efficiency Red	90mW
Yellow Green	84mW
Continuous Forward Current, I_F	
High Efficiency Red	30mA
Yellow Green	25mA
Peak Forward Current (1/10 Duty Ratio, 0.1ms Pulse Width), I_{FM}	50mA
Reverse Voltage, V_R	5V
LED Junction Temperature, T_j	+100°C
Operating Temperature Range, T_{opr}	-25°C to +80°C
Storage Temperature Range, T_{stg}	-40°C to +100°C
DIP Soldering Temperature (During Soldering, 3mm from body, 5sec max), T_L	+260°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
View Angle of Half Power	$2\theta_{1/2}$	$I_F = 20\text{mA}$	–	45	–	deg
Forward Voltage	VF	$I_F = 20\text{mA}$	–	2.05	2.80	V
High Efficiency Red						
Yellow Green			–	2.15	2.80	V
Luminous Intensity (Note 1)	IV	$I_F = 20\text{mA}$	25	45	–	mcd
High Efficiency Red						
Yellow Green			30	50	–	mcd
Peak Emission Wavelength	λ_p	$I_F = 20\text{mA}$	–	625	–	nm
High Efficiency Red						
Yellow Green			–	570	–	nm
Dominant Wave Length (Note 2)	$\lambda_d(\text{HUE})$	$I_F = 20\text{mA}$	–	618	–	nm
High Efficiency Red						
Yellow Green			–	567	–	nm

Note 1. Luminous intensity is measured with an Exeltron 2001, Tolerance = 30%.

Note 2. The dominant wavelength, λ_d , is derived from the CIE Chromaticity Diagram and represents the color of the device.



- 1. Red –
- 2. Green –