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NTE30111 LED – Dual Color 3mm Super Fresh Red/Super Blue

Features:

- RoHS Compliant
- Water Clear

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

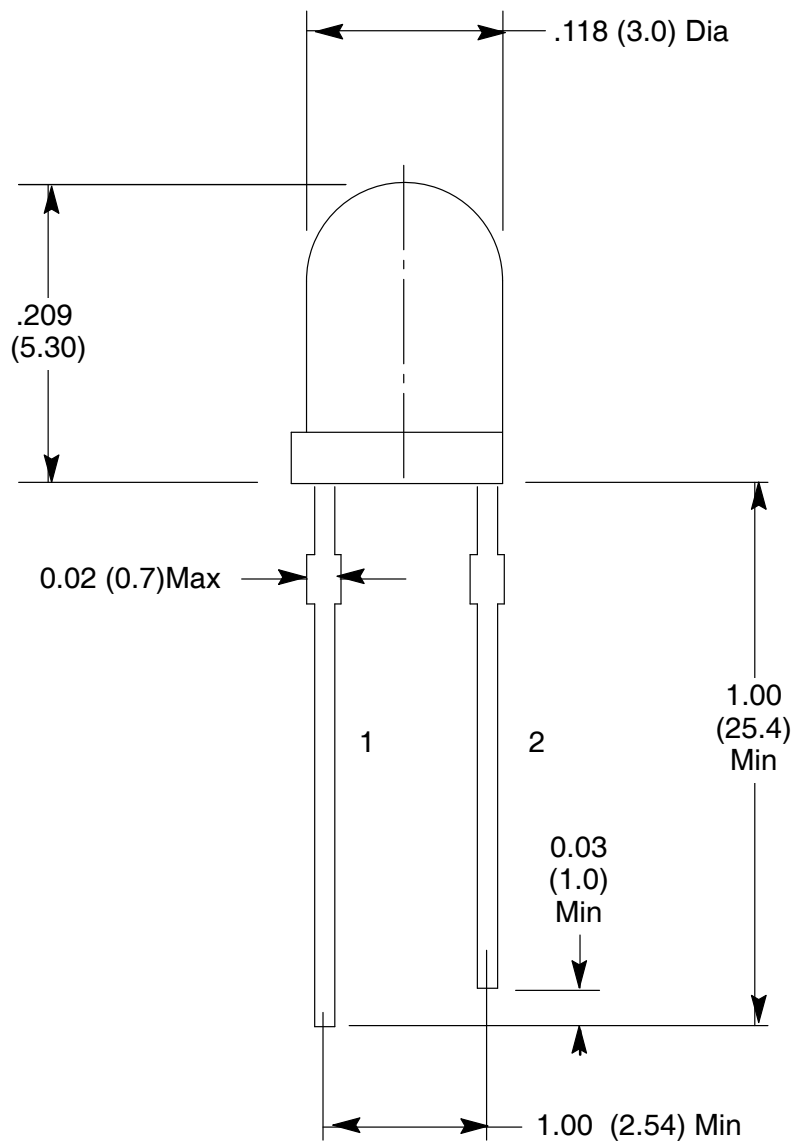
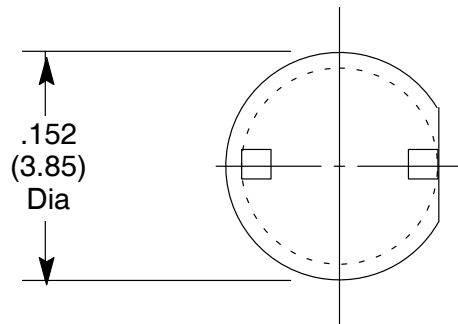
Power Dissipation, P_d	
Super Fresh Red	100mW
Super Blue	120mW
Continuous Forward Current, I_F	25mA
Peak Forward Current (1/10 Duty Ratio, 0.1ms Pulse Width), I_{FM}	
Super Fresh Red	50mA
Super Blue	100mA
Electrostatic Discharge (Super Blue Only), ESD	150V
LED Junction Temperature, T_j	+100°C
Operating Temperature Range, T_{opr}	-25°C to +85°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	$2\theta_{1/2}$	$I_F = 20\text{mA}$	–	15	–	deg
Forward Voltage	VF	$I_F = 20\text{mA}$	–	2.00	2.50	V
Super Fresh Red						
Super Blue			–	3.70	4.20	V
Luminous Intensity (Note 1)	IV	$I_F = 20\text{mA}$	500	800	–	mcd
Super Fresh Red						
Super Blue			400	650	–	mcd
Peak Emission Wavelength	λ_p	$I_F = 20\text{mA}$	–	635	–	nm
Super Fresh Red						
Super Blue			–	468	–	nm
Dominate Wave Length (Note 2)	$\lambda_d(\text{HUE})$	$I_F = 20\text{mA}$	–	626	–	nm
Super Fresh Red						
Super Blue			–	470	–	nm

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

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



- 1. Red –
- 2. Blue –