



ELECTRONICS, INC.
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NTE30103 LED – Dual Color 3mm Super Fresh Red/Super Blue

Features:

- Low Power Consumption
- High Efficiency
- General Purpose Leads
- RoHS Compliant
- Water Clear Lens Type
- Common Anode Pin Configuration

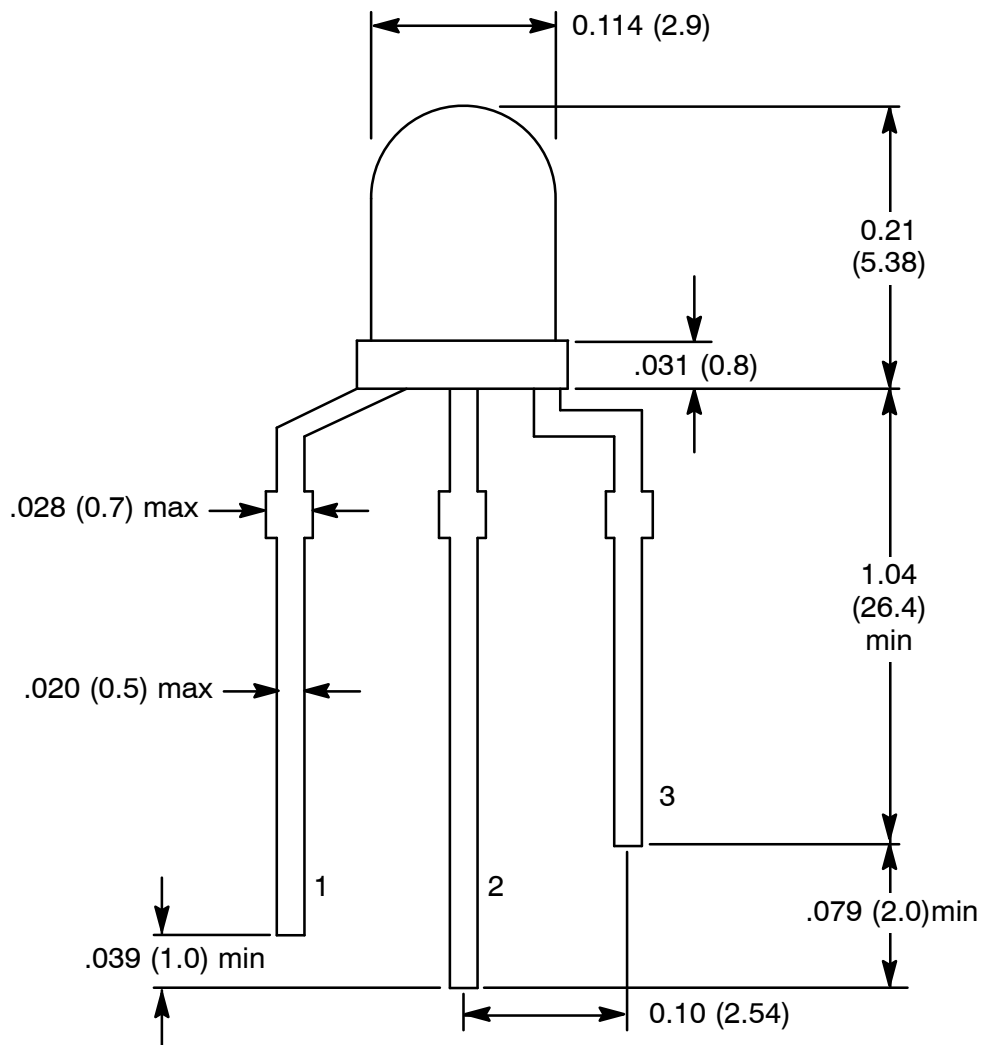
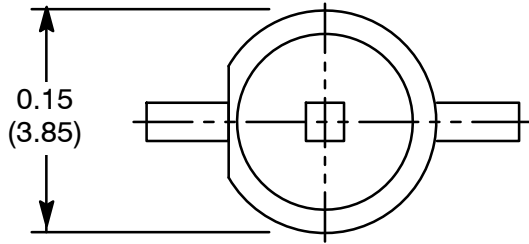
Absolute Maximum Ratings: ($T_A = +25^{\circ}\text{C}$ unless otherwise specified)

Power Dissipation, P_d		
Red	.....	75mW
Blue	.....	100mW
Continuous Forward Current, I_F	.....	30mA
Peak Forward Current (1/10 Duty Ratio, 0.1ms Pulse Width), I_{FM}	.....	100mA
Reverse Voltage, V_R	.....	5V
Derating linear from $+50^{\circ}\text{C}$	.....	0.4mA/ $^{\circ}\text{C}$
Operating Temperature Range, T_{opr}	.....	-40° to $+85^{\circ}\text{C}$
Storage Temperature Range, T_{stg}	.....	-40° to $+100^{\circ}\text{C}$
Lead Soldering Temperature (.157 (4mm) From Body, 5 sec), T_L$	.....	+260^{\circ}\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Viewing Angle	$2\theta_{1/2}$	$I_F = 20\text{mA}$	–	30	–	deg
Forward Voltage	V_F	$I_F = 20\text{mA}$	1.7	2.0	2.4	V
Red						
Blue			2.8	3.2	3.4	V
Reverse Current	I_R	$V_R = 5\text{V}$	–	–	10	μA
Luminous Intensity	I_V	$I_F = 20\text{mA}$	–	1300	–	mcd
Red						
Blue			–	1400	–	mcd
Peak Emission Wavelength	λ_p	$I_F = 20\text{mA}$	–	630	–	nm
Red						
Blue			–	470	–	nm
Dominant Wavelength	λ_d	$I_F = 20\text{mA}$	620	625	630	nm
Red						
Blue			464	468	474	nm
Spectral Line Half-Width	$\Delta\lambda$	$I_F = 20\text{mA}$	–	15	–	nm
Red						
Blue			–	30	–	nm





- 1. Blue -
- 2. Common Anode Lead +
- 3. Red -