



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

## 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

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

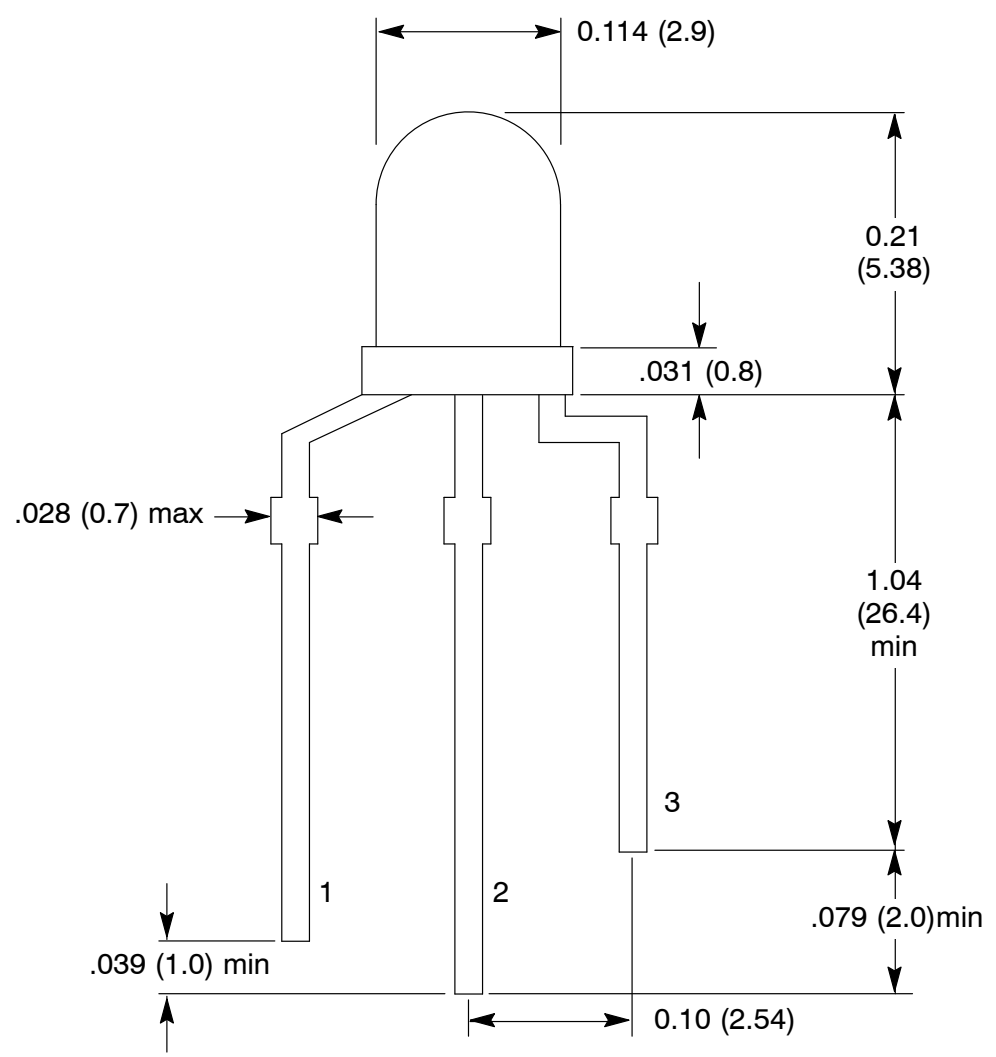
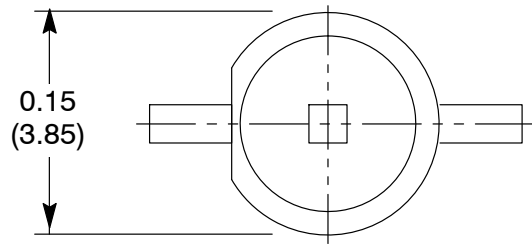
Power Dissipation,  $P_d$   
 Red 75mW  
 Blue 100mW

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,  $T_{opr}$  .....  $-40^\circ$  to  $+85^\circ\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-40^\circ$  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	$I_F = 20\text{mA}$	-	25	-	deg
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	1.8	2.0	2.4	V
Red			2.8	3.0	3.4	V
Reverse Current	$I_R$	$V_R = 5\text{V}$	-	-	10	$\mu\text{A}$
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	-	4000	-	mcd
Red			-	3000	-	mcd
Peak Emission Wavelength	$\lambda_p$	$I_F = 20\text{mA}$	-	630	-	nm
Blue			-	470	-	nm
Dominant Wavelength	$\lambda_d$	$I_F = 20\text{mA}$	618	624	627	nm
Red			464	468	473	nm
Spectral Line Half-Width	$\Delta\lambda$	$I_F = 20\text{mA}$	-	15	-	nm
Blue			-	30	-	nm





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