



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



NTE30115 LED – Triple Color 5mm Super Fresh Red/Super Green/Super Blue

Features:

- RoHS Compliant
- Water Clear

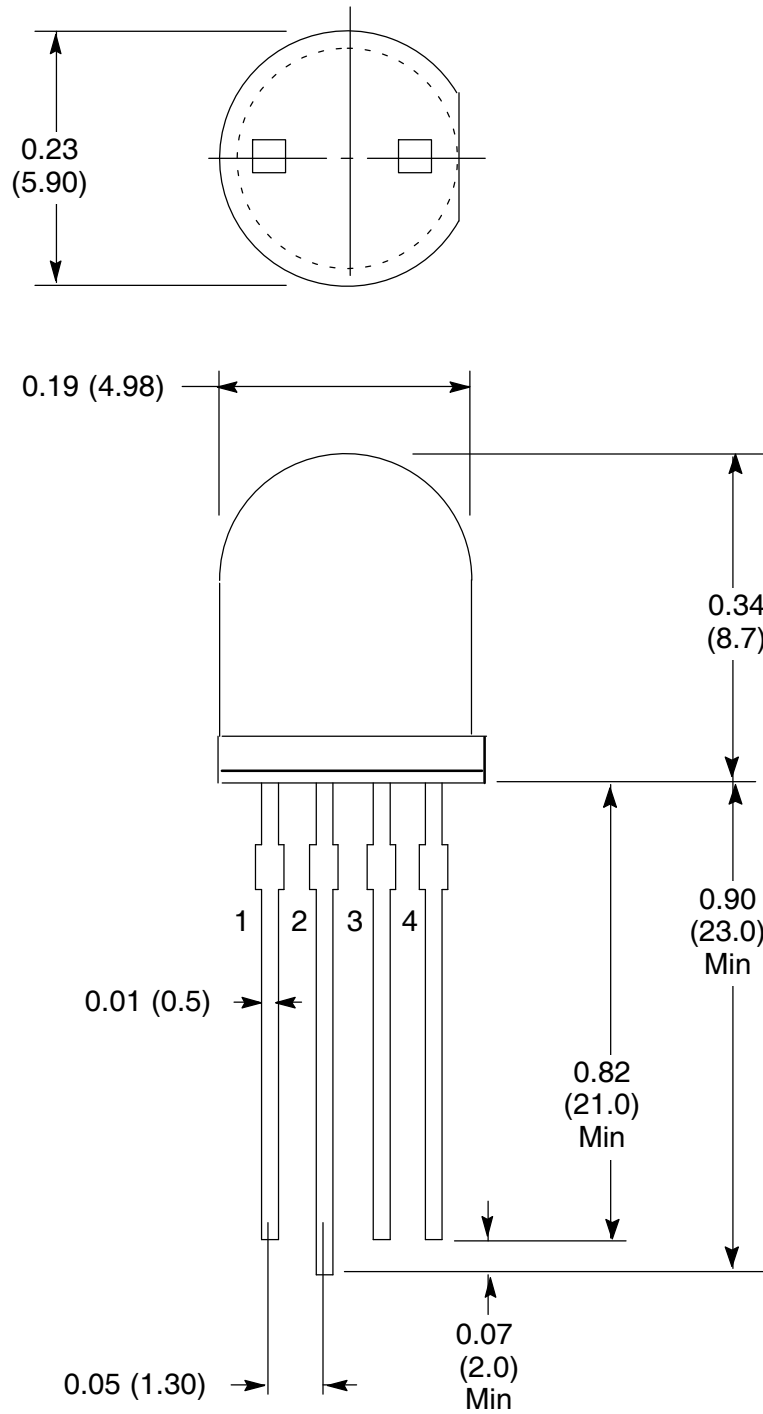
Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Power Dissipation, P_d	
Green & Blue	120mW
Red	100mW
Continuous Forward Current, I_F	25mW
Peak Forward Current (1/10 Duty Ratio, 0.1ms Pulse Width), I_{FM}	
Green & Blue	100mA
Red	50mA
Reverse Voltage, V_R	
Green & Blue	4V
Red	5V
Operating Temperature Range, T_{opr}	-25°C to $+80^\circ\text{C}$
Storage Temperature Range, T_{stg}	-20°C to $+90^\circ\text{C}$
DIP Soldering Temperature (During Soldering, 3mm from body, 5sec max), 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
View Angle of Half Power	$2\theta_{1/2}$	$I_F = 20\text{mA}$	–	12	–	deg
Forward Voltage	VF	$I_F = 20\text{mA}$	–	2.0	2.8	V
Red			–	3.5	4.0	V
Green			–	3.5	4.2	V
Luminous Intensity (Note 1)	IV	$I_F = 20\text{mA}$	1800	3000	–	mcd
Red			3500	6000	–	mcd
Green			1300	2500	–	mcd
Dominate Wave Length (Note 2)	$\lambda_d(\text{HUE})$	$I_F = 20\text{mA}$	–	626	–	nm
Red			–	525	–	nm
Green			–	470	–	nm
Spectrum Width of Half Valve	$\Delta\lambda$	$I_F = 20\text{mA}$	–	25	–	nm
Red			–	45	–	nm
Green			–	20	–	nm
Blue						

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



1. Blue +
2. Common Cathode -
3. Super Red +
4. Green +