



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

NTE30146 thru NTE30151 Discrete LED Indicators 3mm (T-1) Package Type

Features:

- All 3mm Types ^w/White Diffused Lens:
 - NTE30146 (Red)
 - NTE30147 (Green)
 - NTE30148 (Blue)
 - NTE30149 (White)
 - NTE30150 (Pink)
 - NTE30151 (Purple)

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

Power Dissipation, P_D	80mW
Peak Forward Current (1/10th Duty Cycle, 0.1ms Pulse Width), I_{FM}	100mA
Continuous Forward Current, I_F	25mA
Derating Linear from $+30^{\circ}\text{C}$	0.8mA/ $^{\circ}\text{C}$
Reverse Voltage, V_R	5V
Operating Temperature Range, T_{opr}	-20° to $+80^{\circ}\text{C}$
Storage Temperature Range, T_{stg}	-30° to $+100^{\circ}\text{C}$
Lead Temperature (During Soldering, 1.6mm from Body, 5sec Max), T_L	$+260^{\circ}\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage NTE30146	V_F	$I_F = 20\text{mA}$	2.0	–	2.2	V
All Others			3.0	–	3.2	V
Luminous Intensity NTE30146, NTE30148	I_V	$I_F = 20\text{mA}$	100	–	120	mcd
NTE30147			1000	–	2000	mcd
NTE30149			1000	–	1500	mcd
NTE30150			60	–	80	mcd
NTE30151			40	–	50	mcd
Peak Emission Wavelength NTE30146	λ_p		620	–	630	nm
NTE30147			515	–	525	nm
NTE30148			460	–	470	nm
NTE30149			8000	–	12000	K
NTE30151			390	–	410	nm
Half Intensity Angle	$2 \theta_{1/2}$		–	30	–	deg



