



ELECTRONICS, INC.
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NTE30140 thru NTE30145 Discrete LED Indicators 3mm (T-1) Package Type

Features:

- All 3mm Types w/Water Clear Lens:
 - NTE30140 (Red)
 - NTE30141 (Green)
 - NTE30142 (Blue)
 - NTE30143 (White)
 - NTE30144 (Pink)
 - NTE30145 (UV/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 NTE30140	V_F	$I_F = 20\text{mA}$	2.0	–	2.2	V	
			All Others	3.0	–	3.2	V
Luminous Intensity NTE30140	I_V	$I_F = 20\text{mA}$	500	–	800	mcd	
			NTE30141	5000	–	7000	mcd
			NTE30142	1000	–	1500	mcd
			NTE30143	4000	–	6000	mcd
			NTE30144	300	–	400	mcd
			NTE30145	100	–	150	mcd
Peak Emission Wavelength NTE30140	λ_p		620	–	630	nm	
			NTE30141	515	–	525	nm
			NTE30142	460	–	470	nm
			NTE30143	8000	–	12000	K
			NTE30145	390	–	410	nm
Half Intensity Angle	$2 \theta_{1/2}$		–	30	–	deg	

Rev. 9-17



