



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 (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 |



