



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 (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 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 |

Rev. 9-17



