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## NTE3185 Discrete White Clear LED Indicator 3mm (T-1) Type Package

**Description:**

The NTE3185 is a blue source color LED device made with GaN on SiC in a 3mm (T-1) type package. It is recommended that a wrist strap or anti-electrostatic glove be used when handling this device as static electricity and surge will cause damage. All devices, equipment, and machinery must be electrically grounded.

**Features:**

- High Efficiency
- White Emission, High Luminous Intensity

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

Power Dissipation,  $P_D$  ..... 120mW  
 DC Forward Current,  $I_F$  ..... 30mA  
 Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width),  $I_F$  ..... 100mA  
 Reverse Voltage,  $V_R$  ..... 5V  
 Operating Temperature Range,  $T_{opr}$  .....  $-30^\circ$  to  $+80^\circ\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-40^\circ$  to  $+100^\circ\text{C}$   
 Lead Temperature (During Soldering, .157 (4mm) below package base, 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          |
|--------------------------|-----------------|---------------------|-----|------|-----|---------------|
| Forward Voltage          | $V_F$           | $I_F = 20\text{mA}$ | -   | 3.6  | 4.0 | V             |
| Reverse Current          | $I_R$           | $V_R = 5\text{V}$   | -   | 10   | -   | $\mu\text{A}$ |
| Luminous Intensity       | $I_V$           | $I_F = 20\text{mA}$ | 50  | -    | 300 | mcd           |
| Viewing Angle            | $2\theta^{1/2}$ | Note 1              | -   | 40   | -   | deg.          |
| Chromaticity Coordinates | X               |                     | -   | 0.31 | -   |               |
|                          | Y               |                     | -   | 0.32 | -   |               |

Note 1. Viewing Angle is the angle from optical centerline where the luminous intensity is half the optical centerline value.

