



ELECTRONICS, INC.

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## NTE3188 Discrete White Clear LED Indicator

### Description:

The NTE3188 is a blue source color light emitting diode made with GaN on SiC. 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)

Reverse Voltage,  $V_R$  ..... 5V  
 DC Forward Current,  $I_F$  ..... 30mA  
 Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width),  $I_F$  ..... 100mA  
 Power Dissipation,  $P_D$  ..... 120mW  
 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	$I_V$	$I_F = 20\text{mA}$	100	–	300	mcd
Viewing Angle	$2\theta^{1/2}$	Note 1	–	16	–	deg.
Chromaticity Coordinates	X		–	0.31	–	
	Y		–	0.32	–	

Note 1. Viewing Angle is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

