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## NTE3188 Discrete White Clear LED Indicator

**Description:**

The NTE3188 source color light emitting diode is 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,  $P_D$  ..... 105mW  
 Operating Temperature Range,  $T_{opr}$  .....  $-40^{\circ}$  to  $+85^{\circ}\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-40^{\circ}$  to  $+85^{\circ}\text{C}$   
 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	$V_F$	$I_F = 20\text{mA}$	-	3.8	4.5	V
Reverse Current	$I_R$	$V_R = 5\text{V}$	-	-	10	$\mu\text{A}$
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	50	-	180	mcd
Viewing Angle	$2\theta^{1/2}$	Note 1	-	50	-	deg.
Capacitance	C	$V_F = 0\text{V}, f = 1\text{MHz}$	-	65	-	pF
Chromaticity Coordinates	X		-	0.33	-	
	Y		-	0.34	-	

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

