



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° to $+80^\circ\text{C}$
 Storage Temperature Range, T_{stg} -40° 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	–	μA
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.

