



ELECTRONICS, INC.

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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° to $+85^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40° 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	μA
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.

