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NTE3183 & NTE3184 Discrete Blue LED Indicators 3mm (T-1)

Description:

The NTE3183 and NTE3184 are blue source color light emitting diodes made with GaN on SiC. It is recommended that a wrist strap or anti-electrostatic glove be used when handling these devices as static electricity and surge will damage these devices. All devices, equipment, and machinery must be electrically grounded.

Features:

- Low Power Consumption
- Solid State Blue Light Source
 NTE3183 (Blue Diffused)
 NTE3184 (Clear Blue)
- Suitable for use in Full Color LED Displays and Indicators in Diagnostic/Analytical Equipment

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 (Note 1), I_{FP} 200mA
 Power Dissipation, P_D 100mW
 Operating Temperature Range, T_{opr} -20° to $+85^\circ\text{C}$
 Storage Temperature Range, T_{stg} -30° to $+100^\circ\text{C}$
 Lead Temperature (During Soldering, .063 (1.6mm) from body, 5sec max), T_L $+260^\circ\text{C}$

Note 1. Pulse Width $\leq 100\mu\text{s}$, Duty Cycle $\leq 1\%$.

Electro-Optical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	3.0	-	3.4	V
Luminous Intensity	I_V	$I_F = 20\text{mA}$	50	-	100	mcd
NTE3183			100	-	200	mcd
Viewing Angle	$2\theta^{1/2}$		-	60	-	deg.
NTE3183			-	20	-	deg.
Peak Emission Wave Length	λ_{PEAK}		425	430	435	nm

