



ELECTRONICS, INC.
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NTE3016 GaP Light-Emitting Diode (LED)

Description:

The NTE3016 is a 2 color panel circuit indicator which features low drive power, high intensity visible RED or GREEN light emission. A milk white diffused lens provides an excellent ON-OFF contrast ratio, while a fast response time permits pulse operation.

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Forward Current (DC), I_F 25mA
 Reverse Voltage, V_R 4.0Volts
 Power Dissipation, P_D 75mW
 Operating Temperature Range, T_{opr} -20° to $+75^\circ\text{C}$
 Storage Temperature Range, T_{stg} -30° to $+100^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	-	2.1	2.6	V
Reverse Current	I_R	$V_R = 4\text{V}$	-	-	5	μA
Luminous Intensity Red	I_v	$I_F = 20\text{mA}$	0.5	0.75	-	mcd
Green			0.5	1.5	-	mcd
Peak Emission Wave Length Red	λ_p	$I_F = 20\text{mA}$	-	700	-	nm
Green			-	565	-	nm
Spectral Line half Width Red	$\Delta\lambda$	$I_F = 20\text{mA}$	-	100	-	nm
Green			-	25	-	nm

