

## 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,  $T_{opr}$  .....  $-20^\circ$  to  $+75^\circ\text{C}$   
Storage Temperature Range,  $T_{stg}$  .....  $-30^\circ$  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	$\mu\text{A}$
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	$\lambda_P$	$I_F = 20\text{mA}$	–	700	–	nm
Green			–	565	–	nm
Spectral Line half Width Red	$\Delta\lambda$	$I_F = 20\text{mA}$	–	100	–	nm
Green			–	25	–	nm

