

## NTE3019 Light Emitting Diode (LED) Red Diffused, 5mm

## Features:

- Tapered Barrel T-1 3/4 Package
- High Intensity Red light source with various lens colors and effects
- Versatile Mounting on PC Board or Panel
- T-1 3/4 with Stand-off

Absolute Maximum Ratings: (T <sub>A</sub> = +25°C unless otherwise specified)	
Reverse Voltage, V <sub>R</sub>	5V
Peak Forward Current (Note 1, I <sub>F</sub>	1A
Power Dissipation (T <sub>A</sub> = +25°C), P <sub>D</sub>	
Operating Temperature Range, Topr	−55° to +100°C
Storage Temperature Range, T <sub>stg</sub>	−55° to +100°C
Lead Temperature (During Soldering, 1/16" (1.6mm) from case, 5sec max), $T_L \dots$	+260°C

## Note 1. Pulse Width = $1\mu$ s, 0.3% duty cycle.

## **<u>Electrical Characteristics:</u>** $(T_A = +25^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 20 mA	0.9	3.0	_	mcd
Peak Wavelength	$\lambda_{p}$	I <sub>F</sub> = 20 mA	-	_	660	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> = 20 mA	-	20	_	nm
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA	-	1.65	2.0	V
Reverse Current	In	V <sub>R</sub> = 5.0V	_	_	100	λΑ
Reverse Voltage	λΑ	I <sub>R</sub> = 100 λA	_	5.0	_	V
Capacitance	С	V = 0	_	35	_	pF
Viewing Angle	201/2	Between 50% Points	-	60	_	degree
Rise Time	t <sub>r</sub>	10% – 90% 50Ω	_	50	_	ns
Fall Time	t <sub>f</sub>	90% – 10% 50Ω	_	50	_	ns

