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## NTE3018 Light Emitting Diode (LED) Red Diffused, 5mm

**Features:**

- Tapered Barrel T-1 3/4 Package
- Versatile Mounting on PC Board or Panel
- T-1 3/4 with Stand-off

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

Reverse Voltage, $V_R$ .....	5V
Forward Current, $I_F$	
Continuous .....	100mA
Peak (Note 1) .....	1A
Power Dissipation ( $T_A = +25^\circ\text{C}$ ), $P_D$ .....	180mW
Derate linearly from $25^\circ\text{C}$ .....	2mW/ $^\circ\text{C}$
Junction Temperature, $T_J$ .....	$+100^\circ\text{C}$
Operating Temperature Range, $T_{opr}$ .....	$-55^\circ$ to $+100^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-55^\circ$ to $+100^\circ\text{C}$
Lead Temperature (During Soldering, 1/16" (1.6mm) from case, 5sec max), $T_L$ .....	$+260^\circ\text{C}$

Note 1. Pulse Width =  $1\mu\text{s}$ , 0.3% duty cycle.

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Luminous Intensity	$I_V$	$I_F = 20\text{ mA}$	0.1	0.4	-	mcd
Peak Wavelength	$\lambda_p$	$I_F = 20\text{ mA}$	-	-	660	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F = 20\text{ mA}$	-	20	-	nm
Forward Voltage	$V_F$	$I_F = 20\text{ mA}$	-	1.65	2.0	V
Reverse Current	$I_n$	$V_R = 5.0\text{V}$	-	-	100	$\mu\text{A}$
Reverse Voltage	$\lambda A$	$I_R = 100\ \mu\text{A}$	-	5.0	-	V
Capacitance	C	$V = 0$	-	35	-	pF
Viewing Angle	$2\theta_{1/2}$	Between 50% Points	-	-	180	degree
Rise Time	$t_r$	10% - 90% 50 $\Omega$	-	50	-	ns
Fall Time	$t_f$	90% - 10% 50 $\Omega$	-	50	-	ns

