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## NTE3030 & NTE3030-1 Light Emitting Diode (LED) Red, Blinking 5mm (T-1 3/4) Type Package

**Description:**

The NTE3030 and NTE3030-1 are flashing red Light Emitting Diodes (LEDs) in a T-1 3/4 (5mm) plastic type package. Typical applications include warning lights and status indicators.

**Features:**

- Available in Two Different Lens Types:  
     Red, Diffused Lens (NTE3030)  
     Clear, Diffused Lens (NTE3030-1)
- Blink Frequency: 2.0Hz
- Operating Voltage Range:  
     3V-12V DC (NTE3030)  
     3V-10V DC (NTE3030-1)

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

Power Dissipation, $P_D$ .....	100mW
Peak Forward Voltage, $V_F$	
NTE3030 .....	12V
NTE3030-1 .....	14V
Continuous Forward Current, $I_F$	
NTE3030 .....	30mA
NTE3030-1 .....	45mA
Peak Forward Current (NTE3030 <b>Only</b> ), $I_{FP}$ .....	100mA
Reverse Voltage, $V_R$ .....	5V
Operating Temperature Range, $T_{opr}$ .....	$-40^{\circ}$ to $+80^{\circ}\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-40^{\circ}$ to $+100^{\circ}\text{C}$
Lead Temperature (During Soldering, 5 sec), $T_L$ .....	$+260^{\circ}\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage NTE3030	$V_F$	$I_F = 20\text{mA}$	3.0	11.0	12.0	V
NTE3030-1			3.0	6.5	10.0	V
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	50	-	100	mcd
Peak Wavelength	$\lambda_p$	$I_F = 20\text{mA}$	650	655	660	nm
Blink Frequency NTE3030	Fblk	$I_F = 20\text{mA}$	-	2.0	-	Hz
NTE3030-1			-	2.4	-	Hz

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Viewing Angle NTE3030	$2\theta_{1/2}$		-	60	-	deg
NTE3030-1			-	20	-	deg
Reverse Current	$I_R$	$V_R = 5V$	-	-	10	$\mu\text{A}$

