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NTE3030 Light Emitting Diode (LED) Diffused Red, Blinking

Description:

The NTE3030 is a flashing red Light Emitting Diode (LED) with Integral IC in a T-1 3/4 5mm plastic type package. Typical applications include warning lights and status indicators.

Features:

- CMOS technology
- Operating voltage range: 3V-10V DC
- 1/4 duty cycle
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- Blink Frequency: 2.4Hz (VDD=5V)

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

Power Dissipation, P_D 100mW
 Forward Voltage, V_F 14V
 Reverse Voltage, V_R 5V
 Operating Temperature Range, T_{opr} -40° to $+70^\circ\text{C}$
 Storage Temperature Range, T_{stg} -40° to $+85^\circ\text{C}$
 Lead temperature (During Soldering, 5 sec), T_{sol} 260°C

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

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------|-----------------|-----------------|-----|-----|-----|------|
| Luminous Intensity | I_V | | 50 | 60 | - | mcd |
| Viewing Angle | $2\theta_{1/2}$ | | - | 20 | - | deg |
| Peak Emission Wavelength | λ_P | | - | 655 | - | nm |
| Dominant Wavelength | λ_d | | - | 650 | - | nm |
| Spectral Line Half-Width | $\Delta\lambda$ | | - | 15 | - | nm |
| Opening Voltage | V_{dd} | | 3 | 5 | 10 | V |
| Output sink Current | I_{sink} | | - | 45 | | mA |
| Output source Current | I_{source} | | - | 25 | | mA |
| Blink Frequency | Fblk | | 2 | 2.4 | 2.8 | Hz |

