



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089
<http://www.nteinc.com>

NTE30048 Infrared Emitting Diode – 5mm (T-1^{3/4})

Features:

- High Radiant Intensity
- High Reliability
- Low Forward Voltage
- Pb Free
- Lens Color: Water Clear

Applications:

- Free Air Transmission System
- Optoelectronic Switch
- Floppy Disk Drive
- Infrared Applied System
- Smoke Detector

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Power Dissipation (at or below 25°C Free Air Temperature), P _d	150mW
Continuous Forward Current, I _F	50mA
Transient Peak Current (Pulse Width=100µs, Duty Cycle=1%), I _{FP}	200mA
Reverse Voltage, V _R	5V
Operating Temperature, T _{opr}	-40° to +85°C
Storage Temperature, T _{stg}	-40° to +85°C
Soldering Temperature (4mm from mold body less than 5 seconds), T _{sol}	+260°C

Electrical Characteristics:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Viewing Angle	θ	I _F = 50mA	-	30	-	degree
Forward Voltage	V _F	I _F = 50mA	1.30	1.40	-	V
Reverse Current	I _R	V _R = 5.0V	-	-	10	uA
Radiation Intensity	I _e	I _F = 50mA	45	52	-	mW/sr
Peak Wavelength	λ _p	I _F = 50mA	-	850	-	nm
Spectral Bandwidth	Δλ	I _F = 50mA	-	50	-	nm

