



NTE3024 Light Emitting Diode (LED) 5mm (T-1 3/4) Package

Description:

The NTE3024 is a discrete LED indicator device in a 5mm (T-1 3/4) type package. This greenish-yellow source color device is made with Gallium Phosphide and a green diffused lens.

Features:

- Low Power Consumption
- High Efficiency
- Low Current Requirement
- Reliable and Robust

Applications:

- TV Sets
- Monitors
- Telephone
- Computer
- Circuit Board

Absolute Maximum Ratings: (T _A = +25°C unless otherwise specified)
Power Dissipation, P _D
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width), I _{F(Peak)}
Continuous Forward Current, I _F
Derate Linear from +50°C 0.4mA/°C
Reverse Voltage, V _R
Operating Temperature Range, T _A 40° to +85°C
Storage Temperature Range, T _{stq} 40° to +85°C
Lead Temperature (During Soldering, 3mm From Body, 5sec Max), T _L +260°C

$\underline{\textbf{Electrical/Optical Characteristics:}} \quad (T_{A} = +25^{\circ}\text{C unless otherwise specified})$

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Luminous Intensity	Ι _V	I _F = 20mA	45	55	_	mcd
Viewing Angle of Half Power	$2\Theta^{1}/_{2}$	I _F = 20mA	_	35	_	deg.
Peak Emission Wavelength	λP	I _F = 20mA	_	572	_	nm
Dominant Emission Wavelength	λD	I _F = 20mA	565	_	575	nm
Full Width at Half Max	Δλ	I _F = 20mA	_	25	_	nm
Forward Voltage	V _F	I _F = 20mA	_	2.2	2.6	V
Reverse Current	I _R	V _R = 5V	_	_	10	μΑ

Note 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

Note 2. $\Theta^{1}/_{2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

