



**ELECTRONICS, INC.**  
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## NTE30121 Super Bright LED Indicator UV/Super Purple, 5mm

**Features:**

- Low Power Consumption
- High Efficiency
- Versatile Mounting on P.C. Board or Panel
- Low Current Requirement
- Reliable and Robust

**Applications:**

- TV Sets
- Monitor
- Telephone
- Computer
- Circuit Board

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

Power Dissipation, $P_D$ .....	80mW
Peak Forward Current (1/10th Duty Cycle, 0.1ms Pulse Width), $I_{FM}$ .....	100mA
Continuous Forward Current, $I_F$ .....	30mA
Reverse Voltage, $V_R$ .....	5V
Operating Temperature Range, $T_{opr}$ .....	$-25^\circ$ to $+85^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-25^\circ$ to $+100^\circ\text{C}$
Lead Temperature (During Soldering, 3mm from Body, 5sec Max), $T_L$ .....	$+260^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	250	300	–	mcd
View Angle of Half Power	$2 \theta_{1/2}$	$I_F = 20\text{mA}$	–	20	–	deg
Peak Emission Wavelength	$\lambda_P$	$I_F = 20\text{mA}$	–	400	–	nm
Dominant Emission Wavelength	$\lambda_d$	$I_F = 20\text{mA}$	–	–	–	nm
Full Width at Half Max	$\Delta\lambda$	$I_F = 20\text{mA}$	–	20	–	nm
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	3.0	3.3	4.0	V
Reverse Current	$I_R$	$V_R = 5\text{V}$	–	–	10	$\mu\text{A}$

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.

Note 3. The dominant wavelength ( $\lambda_d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength, which defines the color of the device.



