



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

NTE3069 0.4" Single Digit Numeric Display Seven Segment, RHDP

Features:

- Chip Material: AlGaAs
- Source Color: Super Red
- Face: Black
- Segment: Red
- 0.4 Inch (10.16mm) Digit Height
- Easy Mounting on PC Board or Socket

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

Power Dissipation, P_T	100mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width), I_{Fpeak}	100mA
Continuous Forward Current, I_F	40mA
Derate Linearly from 50°C	0.40mA/ $^\circ\text{C}$
Reverse Voltage, V_R	5V
Operating Temperature Range, T_{opr}	-40° to $+80^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40° to $+80^\circ\text{C}$
Lead Temperature (During Solder, 1/16" 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
Average Luminous Intensity	I_v	$I_F = 20\text{mA}$, Note 1	–	10.5	14	md
Peak Emission Wavelength	λ_p	$I_F = 20\text{mA}$	655	660	665	nm
Spectral Line Half-Width	$\Delta\lambda$	$I_F = 20\text{mA}$	19	24	29	nm
Forward Voltage	V_F	$I_F = 20\text{mA}$	1.6	1.85	2.4	V
Reverse Current	I_R	$V_R = 5\text{V}$	–	–	100	μA

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

Pin Connection Diagram

