

NTE3068 thru NTE3071 0.4" Single Digit Numeric Display Seven Segment, RHDP

Description:

The NTE3068 through NTE3071 are 0.4 inch (10.16mm) height single digit displays. The NTE3068 and NTE3069 devices utilize LED chips which are made from GaP on a transparent GaP substrate. The NTE3070 and NTE3071 devices utilize chips which are made from GaAsP on a transparent GaP substrate.

Features:

- 0.4 Inch (10.16mm) Digit Height
- Continuous Uniform Segments
- Choice of Two Bright Colors:
 - Red – NTE3068, NTE3069
 - Orange – NTE3070, NTE3071
- Low Power Requirement
- Excellent Characters Appearance
- Categorized for Luminous Intensity
- IC Compatible
- Easy Mounting on PC Board or Socket

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

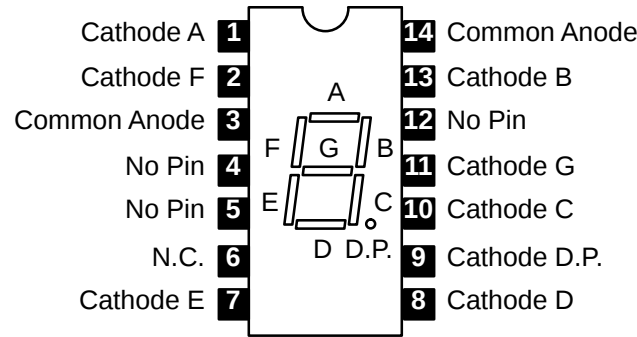
Power Dissipation (Per Segment), P_T	
NTE3068, NTE3069	55mW
NTE3070, NTE3071	75mW
Peak Forward Current (Per Segment, 1/10 Duty Cycle, 0.1ms Pulse Width), $I_{F\text{peak}}$	
NTE3068, NTE3069	160mA
NTE3070, NTE3071	100mA
Continuous Forward Current (Per Segment), I_F	25mA
Derate Linearly from 25°C (Per Segment)	0.30mA/ $^{\circ}\text{C}$
Reverse Voltage (Per Segment), V_R	5V
Operating Temperature Range, T_{opr}	-25° to $+85^{\circ}\text{C}$
Storage Temperature Range, T_{stg}	-25° to $+85^{\circ}\text{C}$
Lead Temperature (During Solder, 1/16" Below Seating Plane, 3sec 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 NTE3068, NTE3069	I_V	$I_F = 10\text{mA}$	200	500	—	μcd
NTE3070, NTE3071			850	2200	—	μcd
Peak Emission Wavelength NTE3068, NTE3069	λ_P	$I_F = 20\text{mA}$	—	655	—	nm
NTE3070, NTE3071			—	630	—	nm
Spectral Line Half-Width NTE3068, NTE3069	$\Delta\lambda$	$I_F = 20\text{mA}$	—	24	—	nm
NTE3070, NTE3071			—	40	—	nm
Forward Voltage, Any Segment or D.P. NTE3068, NTE3069	V_F	$I_F = 20\text{mA}$	—	1.7	2.0	V
NTE3070, NTE3071			—	2.1	2.8	V
Reverse Current, Any Segment or D.P.	I_R	$V_R = 5\text{V}$	—	—	100	μA
Luminous Intensity Matching Ratio	I_{V-m}	$I_F = 20\text{mA}$	—	—	2:1	

Pin Connection Diagram

NTE3068, NTE3070



NTE3069, NTE3071

