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NTE3061 thru NTE3064 0.3" Single Digit Numeric Display, Seven Segment, Common Anode

Description:

The NTE3061 through NTE3064 are 0.3 inch (7.62mm) height single digit, seven segment, common anode displays. The NTE3061 utilizes LED chips which are made from GaAsP on a GaAs substrate. The NTE3063 utilizes LED chips which are made from GaP on a transparent GaP substrate. The NTE3062 and NTE3064 utilize LED chips which are made from GaAsP on a transparent GaP substrate.

Features:

- 0.3 Inch (7.62mm) Digit Height
- Choice of Four Bright Colors:
 - Super Red- NTE3061
 - Orange - NTE3062
 - Green - NTE3063
 - Yellow - NTE3064
- Low Power Requirement
- Excellent Characters Appearance
- Categorized for Luminous Intensity
- IC Compatible
- Easy Mounting on PC Board or Sockets

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

Power Dissipation (Per Segment), P_T

NTE3061	100mW
NTE3062, NTE3063	75mW
NTE3064	60mW

Peak Forward Current (Per Segment, 1/10 Duty Cycle, 0.1ms Pulse Width), $I_{F\text{peak}}$

NTE3061, NTE3062, NTE3063	100mA
NTE3064	80mA

Continuous Forward Current (Per Segment), I_F

NTE3061	40mA
NTE3062, NTE3063	25mA
NTE3064	20mA

Derate Linearly from $+25^{\circ}\text{C}$ (Per Segment)

NTE3061	0.40mA/ $^{\circ}\text{C}$
NTE3062, NTE3063	0.30mA/ $^{\circ}\text{C}$
NTE3064	0.24mA/ $^{\circ}\text{C}$

Reverse Voltage (Per Segment), V_R

5V

Operating Temperature Range, T_{opr}

NTE3061	-40° to $+80^{\circ}\text{C}$
NTE3062, NTE3063, NTE3064	-25° to $+85^{\circ}\text{C}$

Storage Temperature Range, T_{stg}

NTE3061	-40° to $+80^{\circ}\text{C}$
NTE3062, NTE3063, NTE3064	-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 NTE3061	I_V	$I_F = 20\text{mA}$ $I_F = 10\text{mA}$	-	10.5	14	mcd
NTE3062, NTE3063, NTE3064			800	2000	-	μcd
Peak Emission Wavelength NTE3061	λ_P	$I_F = 20\text{mA}$	655	660	665	nm
NTE3062			-	630	-	nm
NTE3063			-	565	-	nm
NTE3064			-	585	-	nm
Spectral Line Half-Width NTE3061	$\Delta\lambda$	$I_F = 20\text{mA}$	19	24	29	nm
NTE3062			-	40	-	nm
NTE3063			-	30	-	nm
NTE3064			-	35	-	nm
Forward Voltage, Any Segment or D.P. NTE3061	V_F	$I_F = 20\text{mA}$	1.6	1.85	2.4	V
NTE3062, NTE3063, NTE3064			-	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

