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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), $I_{Fpeak}$	
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 .....	$-40^\circ$ to $+80^\circ\text{C}$
NTE3062, NTE3063, NTE3064 .....	$-25^\circ$ to $+85^\circ\text{C}$
Storage Temperature Range, $T_{stg}$	
NTE3061 .....	$-40^\circ$ to $+80^\circ\text{C}$
NTE3062, NTE3063, NTE3064 .....	$-25^\circ$ 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	$I_V$	$I_F = 20\text{mA}$	-	10.5	14	mcd
NTE3062, NTE3063, NTE3064			800	2000	-	$\mu\text{cd}$
Peak Emission Wavelength NTE3061	$\lambda_P$	$I_F = 20\text{mA}$	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	$\mu\text{A}$
Luminous Intensity Matching Ratio	$I_{V-m}$	$I_F = 20\text{mA}$	-	-	2:1	

**Pin Connection Diagram**



