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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° 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 | $I_F = 20\text{mA}$ | - | 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



