

NTE3078 & NTE3079 0.56" Single Digit Numeric Display Seven Segment, RHDP

Description:

The NTE3078 (Common Anode) and NTE3079 (Common Cathode) are 0.56 inch (14.2mm) height single digit displays utilizing LED chips which are made from GaAsP on a GaAs substrate.

Features:

- 0.56 Inch (14.2mm) Digit Height
- Low Power Requirement
- Excellent Characters Appearance
- Catagorized for Luminous Intensity
- IC Compatible
- Easy Mounting on PC Board or Socket

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

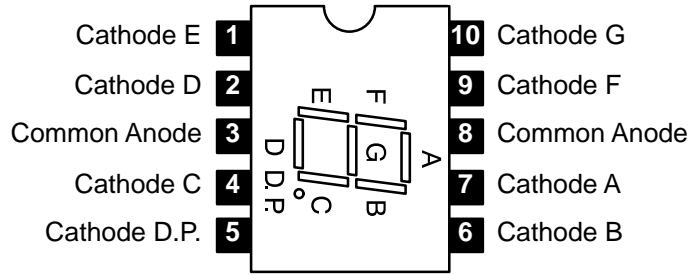
Power Dissipation (Per Segment), P_T 55mW
 Peak Forward Current (Per Segment, 1/10 Duty Cycle, 0.1ms Pulse Width), $I_{F\text{peak}}$ 160mA
 Continuous Forward Current (Per Segment), I_F 25mA
 Derate Linearly from 25°C (Per Segment) $0.30\text{mA}/^\circ\text{C}$
 Reverse Voltage (Per Segment), V_R 5V
 Operating Temperature Range, T_{opr} -25° to $+85^\circ\text{C}$
 Storage Temperature Range, T_{stg} -25° to $+85^\circ\text{C}$
 Lead Temperatue (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 | I_V | $I_F = 10\text{mA}$ | 200 | 500 | – | μcd |
| Peak Emission Wavelength | λ_P | $I_F = 20\text{mA}$ | – | 655 | – | nm |
| Spectral Line Half-Width | $\Delta\lambda$ | $I_F = 20\text{mA}$ | – | 24 | – | nm |
| Forward Voltage, Any Segment or D.P. | V_F | $I_F = 20\text{mA}$ | – | 1.7 | 2.0 | 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

NTE3078



NTE3079

