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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

NTE3078	55mW
NTE3079	100mW

Peak Forward Current (Per Segment, 1/10 Duty Cycle, 0.1ms Pulse Width), I_{Fpeak}

NTE3078	160mA
NTE3079	100mA

Continuous Forward Current (Per Segment), I_F

NTE3078	25mA
NTE3079	40mA

Derate Linearly from 25°C (Per Segment) NTE3078 0.30mA/°C

Derate Linearly from 50°C (Per Segment) NTE3079 0.40mA/°C

Reverse Voltage (Per Segment), V_R 5V

Operating Temperature Range, T_{opr}

NTE3078	-25° to +85°C
NTE3079	-40° to +80°C

Storage Temperature Range, T_{stg}

NTE3078	-25° to +85°C
NTE3079	-40° to +80°C

Lead Temperatue (During Solder, 1/16" Below Seating Plane, 3sec max), T_L +260°C

Electrical/Optical Characteristics NTE3078: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

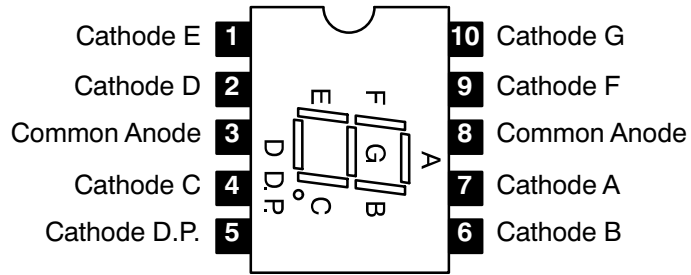
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Average Luminous Intensity	I_V	$I_F = 10\text{mA}$	200	500	-	μcd
Peak Emission Wavelength	λ_P	$I_F = 20\text{mA}$	-	655	-	nm
Spectral Line Half-Width	$\Delta\lambda$	$I_F = 20\text{mA}$	-	24	-	nm
Forward Voltage, Any Segment or D.P.	V_F	$I_F = 20\text{mA}$	-	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	

Electrical/Optical Characteristics NTE3079: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Average Luminous Intensity	I_V	$I_F = 20\text{mA}$	7	12	18	mcd
Peak Emission Wavelength	λ_P	$I_F = 20\text{mA}$	640	644	650	nm
Spectral Line Half-Width	$\Delta\lambda$	$I_F = 20\text{mA}$	19	24	29	nm
Forward Voltage, Any Segment or D.P.	V_F	$I_F = 20\text{mA}$	1.6	1.85	2.4	V
Reverse Current, Any Segment or D.P.	I_R	$V_R = 5\text{V}$	-	-	100	μA

Pin Connection Diagram

NTE3078



NTE3079

