



ELECTRONICS, INC.
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NTE3080 Series LED Display, .800" Seven Segment, Common Anode Right Hand Decimal Point

Features:

- Available in 3 colors:
 - NTE3080 (High Eff Red, AlGaInP)
 - NTE3080-Y (Yellow, AlGaInP)
 - NTE3080-G (Yellow Green, AlGaInP)
- 0.8 Inch Digit Height
- High Intensity and Reliability
- High Quality, Low Power Requirement
- Easy Mounting on P.C. Boards or Sockets
- IC Compatible
- Standard: Gray Face, White Segment
- RoHS Compliant

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

Power Dissipation (Per Segment, P_D	75mW
Peak Forward Current (Per Segment, Note 1), I_{FP}	100mA
DC Forward Current (Per Segment), I_F	30mA
Derate Linearly from $+25^{\circ}\text{C}$	0.33mA/ $^{\circ}\text{C}$
Reverse Voltage (Per Segment), V_R	5V
Operating Temperature Range, T_{opr}	-40° to $+105^{\circ}\text{C}$
Storage Temperature Range, T_{stg}	-40° to $+105^{\circ}\text{C}$
Lead Temperature, (During Soldering, 1.6mm from Body, 3sec Max), T_L	$+260^{\circ}\text{C}$

Note 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Luminous Intensity (Per Segment) NTE3080, NTE3080-Y	I_V	$I_F = 10\text{mA}$	-	60	-	mcd
NTE3080-G			-	40	-	mcd
Dominant Wavelength NTE3080	λ_d	$I_F = 20\text{mA}$	620	-	630	nm
NTE3080-Y			588	-	592	nm
NTE3080-G			565	-	575	nm
Forward Voltage (Per Dice)	V_F	$I_F = 20\text{mA}$	1.8	-	2.4	V
Reverse Current (Per Dice)	I_R	$V_R = 5\text{V}$	-	-	50	μA
Electro-Static Discharge	ESD	$I_F = 20\text{mA}$	-	3000	-	V

Rev. 5-22



Pin Connection Diagram

