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NTE3050 Seven Segment Red LED Display .270 Inch, Common Anode, LHDP, Red Epoxy Case

Features:

- .270" High Characters
- High Brightness
- Low Power Requirements
- Left Hand Decimal Point (LHDP)
- Single-Plane Wide-Angle Visibility
- Compatible with Most TTL and DTL Circuits

Absolute Maximum Ratings: ($T_A = 0^\circ$ to $+70^\circ\text{C}$ unless otherwise specified)

Reverse Voltage ($T_A = +25^\circ\text{C}$), V_R	6V
Each Segment	6V
Decimal Point	3V
Peak Forward Current (Each Segment or Decimal Point, Note 1), I_{Fpeak}	200mA
Continuous Forward Current, I_F	
Each Segment or Decimal Point	30mA
Total Device	240mA
Operating Ambient Temperature Range, T_A	0° to $+70^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+100^\circ\text{C}$

Note 1. This value applies for $PRR \geq 60\text{Hz}$, Duty Cycle $\leq 10\%$.

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Luminous Intensity Each Segment	I_V	$I_F = 20\text{mA}$, Note 2	100	275	–	μcd
Decimal Point			40	110	–	μcd
Wavelength at Peak Emission Each Segment	λ_P	$I_F = 20\text{mA}$	640	660	680	nm
Decimal Point			645	665	685	nm
Spectral Bandwidth between Half-Power Points	B		–	20	–	nm
Static Forward Voltage Each Segment	V_F		3.0	3.4	3.8	V
Decimal Point			1.5	1.65	2.0	V
Average Temperature Coefficient of Static Forward Voltage Each Segment	α_{VF}	$I_F = 20\text{mA}$, $T_A = 0^\circ$ to $+70^\circ\text{C}$	–	–2.7	–	$\text{mV}/^\circ\text{C}$
Decimal Point			–	–1.4	–	$\text{mV}/^\circ\text{C}$
Static Reverse Current Each Segment	I_R	$V_R = 6\text{V}$	–	–	100	μA
Decimal Point		$V_R = 3\text{V}$	–	–	100	μA
Anode-to-Cathode Capacitance Each Segment	C	$V_R = 0$, $f = 1\text{MHz}$	–	85	–	pF
Decimal Point			–	120	–	pF

Note 2. Luminous intensity is measured with a solar cell and filter combination which approximates the CIE (International Commission on Illumination) eye-response curve.

Pin Connection Diagram

