

NTE3050

Seven Segment LED Display

.270 Inch, Common Anode, LHDP

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	
Each Segment	6V
Decimal Point	3V
Peak Forward Current (Each Segment or Decimal Point, Note 1), $I_{F\text{peak}}$	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 $\text{PRR} \geq 60\text{Hz}$, 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	I_V	$I_F = 20\text{mA}$, Note 2	100	275	–	μcd
Each Segment			40	110	–	μcd
Decimal Point						
Wavelength at Peak Emission	λ_P	$I_F = 20\text{mA}$	640	660	680	nm
Each Segment			645	665	685	nm
Decimal Point						
Spectral Bandwidth between Half-Power Points	B		–	20	–	nm
Static Forward Voltage	V_F		3.0	3.4	3.8	V
Each Segment			1.5	1.65	2.0	V
Decimal Point						
Average Temperature Coefficient of Static Forward Voltage	α_{VF}	$I_F = 20\text{mA}$, $T_A = 0^\circ$ to $+70^\circ\text{C}$	–	–2.7	–	$\text{mV}/^\circ\text{C}$
Each Segment			–	–1.4	–	$\text{mV}/^\circ\text{C}$
Decimal Point						
Static Reverse Current	I_R	$V_R = 6\text{V}$	–	–	100	μA
Each Segment		$V_R = 3\text{V}$	–	–	100	μA
Decimal Point						
Anode-to-Cathode Capacitance	C	$V_R = 0$, $f = 1\text{MHz}$	–	85	–	pF
Each Segment			–	120	–	pF
Decimal Point						

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

