



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089

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

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						
Decimal Point			40	110	-	μcd
Wavelength at Peak Emission	λ_P	$I_F = 20\text{mA}$	640	660	680	nm
Each Segment						
Decimal Point			645	665	685	nm
Spectral Bandwidth between Half-Power Points	B		-	20	-	nm
Static Forward Voltage	V_F		3.0	3.4	3.8	V
Each Segment						
Decimal Point			1.5	1.65	2.0	V
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						
Decimal Point			-	-1.4	-	$\text{mV}/^\circ\text{C}$
Static Reverse Current	I_R	$V_R = 6\text{V}$	-	-	100	μA
Each Segment						
Decimal Point		$V_R = 3\text{V}$	-	-	100	μA
Anode-to-Cathode Capacitance	C	$V_R = 0$, $f = 1\text{MHz}$	-	85	-	pF
Each Segment						
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

