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## NTE3115 Bar Graph Display

**Description:**

The NTE3115 is a 10-segment bar graph display with separate anodes and cathodes for each light segment. The packages are end stackable.

**Features:**

- Chip Material: AlGaInP
- Source Color: Super Bright Red
- Face: Gray
- Segment: Red
- End Stackable
- Fast Switching, Excellent for Multiplexing
- Low Power Consumption
- Directly Compatible with IC's
- Wide Viewing Angle
- Standard .300" DIP Lead Spacing

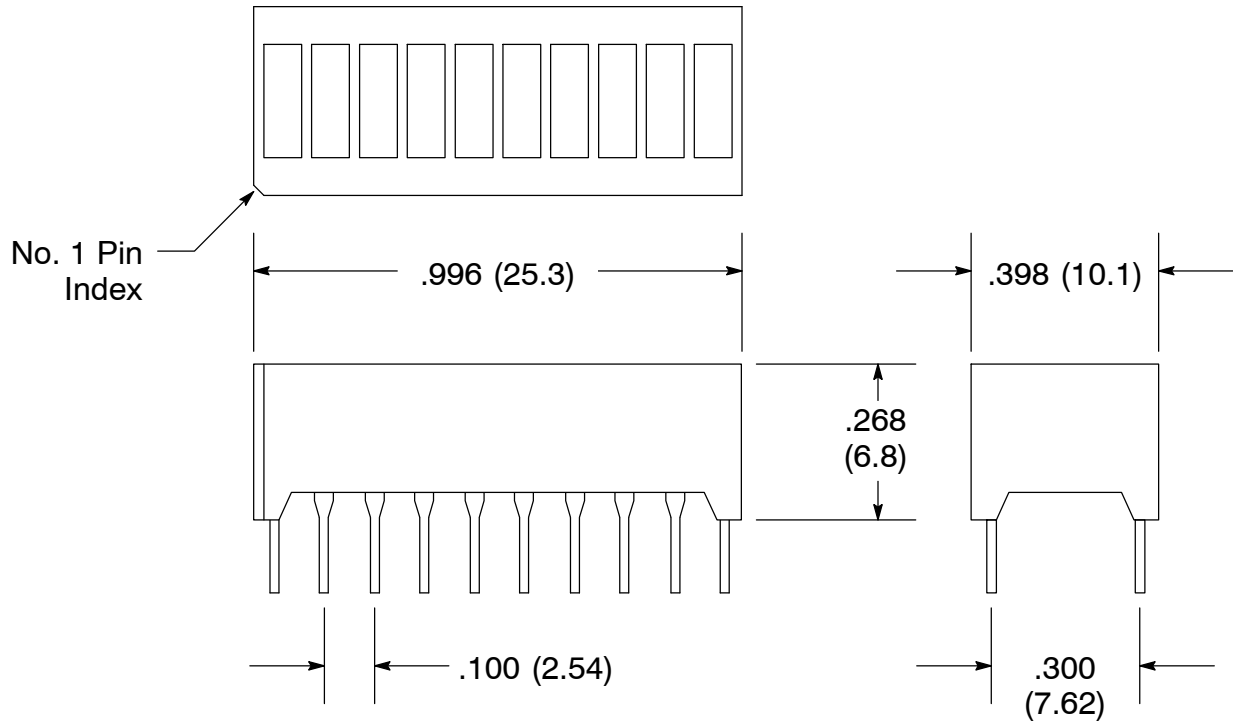
**Absolute Maximum Ratings:** ( $T_A = +25^{\circ}\text{C}$  unless otherwise specified)

Power Dissipation, $P_D$ .....	750mW
Forward Current, $I_F$	
Peak (1/10 Duty Cycle, 0.1ms Pulse Width) .....	100mA
Continuous .....	50mA
Derate Linearly from $50^{\circ}\text{C}$ .....	$0.4\text{mA}/^{\circ}\text{C}$
Reverse Voltage, $V_R$ .....	5V
Operating Temperature Range, $T_{opr}$ .....	$-40^{\circ}$ to $+80^{\circ}\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-40^{\circ}$ to $+80^{\circ}\text{C}$
Lead Temperature (During Soldering, 5sec max 1.6mm from body), $T_L$ .....	$+260^{\circ}\text{C}$

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

Parameter	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	$I_F = 20\text{mA}$	1.8	2.0	2.4	V
Luminous Intensity	$I_F = 20\text{mA}$ , Note 1	20	35	45	mcd
Peak Emission Wavelength	$I_F = 20\text{mA}$	625	630	633	nm
Spectral Line Half Width	$I_F = 20\text{mA}$	15	20	25	nm
Reverse Current	$V_R = 5\text{V}$	-	-	20	$\mu\text{A}$

Note 1. Luminous Intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve..



Pin	Output	Pin	Output
1	D1 Anode	11	D10 Cathode
2	D2 Anode	12	D9 Cathode
3	D3 Anode	13	D8 Cathode
4	D4 Anode	14	D7 Cathode
5	D5 Anode	15	D6 Cathode
6	D6 Anode	16	D5 Cathode
7	D7 Anode	17	D4 Cathode
8	D8 Anode	18	D3 Cathode
9	D9 Anode	19	D2 Cathode
10	D10 Anode	20	D1 Cathode