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NTE3118 Bar Graph Display 10-Segment

Description:

The NTE3118 is a 10-segment, 3 color bar graph display with separate anodes and cathodes for each light segment. This device contains 3 red segments, 3 orange segments, and 4 yellow-green segments on a single, end stackable black face package with white fields.

Features:

- 10 Fields 3 Color LED Display (Red / Orange / Yellow-Green, AlGaInP)
- High Intensity and Reliability
- High Quality, Low Power Requirement
- IC Compatible, Easy Assembly
- RoHS Compliant

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

Power Dissipation (Per Segment), P_D 65mW
 Peak Forward Current (Per Segment, 1/10 Duty Cycle, 0.1ms Pulse Width), $I_{F(\text{peak})}$ 100mA
 Average Forward Current (Per Segment), $I_{F(\text{av})}$ 30mA
 Derate Linear from $+25^\circ\text{C}$ (Per Segment) 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 $+260^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage Red	V_F	$I_F = 20\text{mA}$	1.8	-	2.3	V
Orange			1.98	-	2.3	V
Yellow-Green			1.8	-	2.3	V
Reverse Current Red	I_R	$V_R = 5\text{V}$	-	-	5	μA
Orange			-	-	5	μA
Yellow-Green			-	-	5	μA
Dominant Wavelength Red	λ_D	$I_F = 20\text{mA}$	630	-	635	nm
Orange			600	-	610	nm
Yellow-Green			565	-	575	nm

Rev. 11-22



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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Half Intensity Angle (All Colors)	$2\theta^{1/2}$	$I_F = 20\text{mA}$	-	120	-	deg
Luminous Intensity Red	I_V	$I_F = 20\text{mA}$	-	15	-	mcd
Orange			-	15	-	mcd
Yellow-Green			-	15	-	mcd

