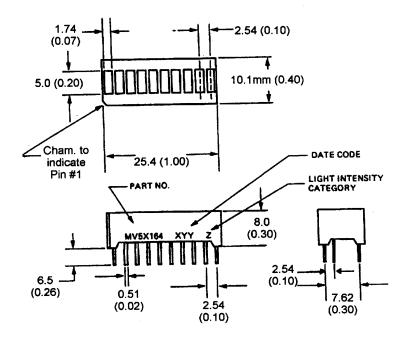


HER Red / Green MV59164 (BI-COLOR)

PACKAGE DIMENSIONS



FEATURES

Large segments, closely spaced End stackable Fast switching - excellent for multiplexing Low power consumption Directlt compatible with lcs Wide viewing angle 0.1 inch pin to pin spacing Individual LED chip addressable Dual function

APPLICATIONs

Analog instrument displays Level

NOTE: Dimensions are in mm (inch). Tolerances are ± 0.25 (0.1) unless otherwise noted. All pins are 0.5 (.02).

MODEL NUMBER

Part NumberColourDescriptionMV59164HER Red/GreenIndividual LED addressable(For other color options, contact your local area Sales Office)



BI-COLOR BARGRAPH (STICK DISPLAY)

ABSOLUTE MAXIMUM RATING (T_A = 25°C unless otherwise specified)

	HER	Green	Units	
Peak forward current per segment	90	90	mA	
(Duty cycle 1/10, 10KHz)				
Continous IF per segment	25	25	mA	
Power dissipation per segment	70*	70	mW	
*Derate linearly from 25°C	0.33	0.33	mW/°C	
Reverse voltage VR per segment	5	5	Volts	
Operating and storage temperature range			25°C to +85°C	
Soldering time at 260°C				
(1/16" below seating plane)				

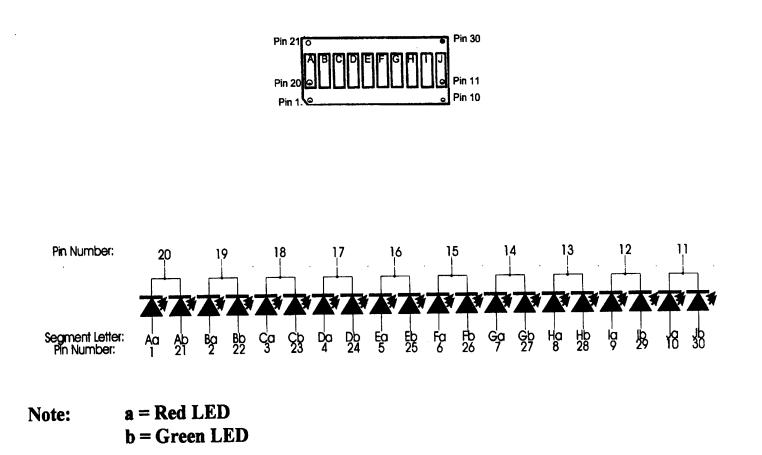
ELECTRO - OPTICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ unless otherwise specified)

	HER	Green	Test <u>Condition</u>
Luminous Intensity/Dot			
Digit average (Typical)	3000ucd	3000ucd	l _F = 20mA
Forward voltage (V _F)			
typical	2.0V	2.1V	l _F = 20 mA
maximum	2.8V	2.8V	l _F = 20 mA
Peak wavelength (nm)	635nm	570nm	l _F = 20 mA
Spectral line half width (nm)	45nm	30nm	l _F = 20mA
Reverse breakdown voltage V _R	5V	5V	l _R = 100uA



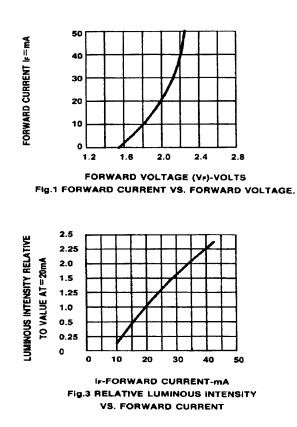
BI-COLOR BARGRAPH (STICK DISPLAY)

PIN CONNECTION / SCHEMATIC:





GRAPHICAL DETAIL: High Efficiency Red ($T_A = 25^{\circ}C$ unless otherwise specified)





DCMAX-MAXIMUM DC CURRENT-mA



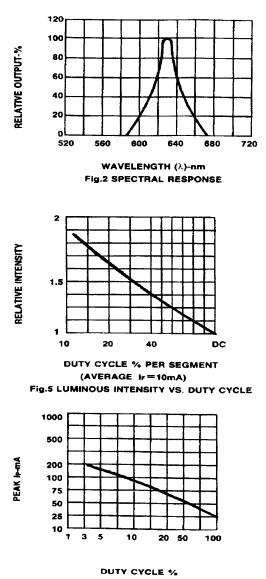
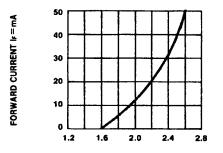


Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE (=1 KHz)

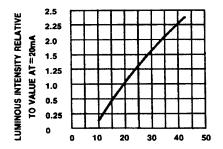


BI-COLOR BARGRAPH (STICK DISPLAY)

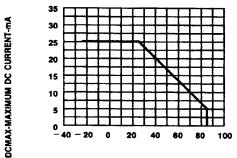
GRAPHICAL DETAIL: Green ($T_A = 25^{\circ}C$ unless otherwise specified)



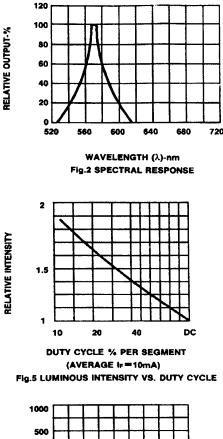




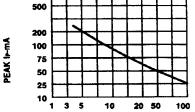
IF-FORWARD CURRENT-mA Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



TA AMBIENT TEMPERATURE C Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT CS. A FUNCTION OF AMBIENT TEMPERATURE.



RELATIVE OUTPUT-%



DUTY CYCLE % Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE (=1 KHz)



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