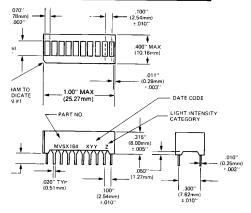




MV5A164 MV5D164 MV5B164 MV5E164 MV5C164

PACKAGE DIMENSIONS



NOTE: TOLERANCES ±.010" UNLESS SPECIFIED

DESCRIPTION

These are 10 segments multicolor bargraphs with separate anodes and cathode for each segment. The packages are stackable.

FEATURES

- Large segments, closely spaced
- End stackable
- Fast switching excellent for multiplexing
- Low power consumption
- Directly compatible with ICs.
- Standard 0.3" DIP lead spacing

Custom multicolor bargraphs are available with minimum delivery requirements.

ABSOLUTE MAXIMUM RATING

Power dissipation at 25°C ambient	750 mW
Derate intearly from 50°C	14.2 m/M/9C
Storage and operating temperature	-40°C to 85°C
Continuous forward current	
Total	200 mA
Fer segment	25 mA
I Heverse voltage	
Per segment	6.1/
Soldering time at 260°C	5 Sec.

C1468A

TYPICAL THERMAL CHARACTERISTICS

- [
1	Thermal resistance Junction to free air Ø _{JA}		10000011
1	The state of the s		
ı	Wavelength temperature coefficient (case temperature	·e)	10 1/00
ı	Family 1	·	· · · · · · · · · · · · · · · · · · ·
ı	Forward voltage temperature coefficient		
ı	V. II		
ı	f tellow −1.5 mv/°C,	Green –1.4 mV/°C	HFB _2.0 mV/°C
ı	Forward voltage temperature coefficient (case temperature Forward voltage temperature coefficient	re)	





CONDITIONS	MIN	TYP	MAX	UNITS	TEST
Forward voltage (HER, Green, Yellow)		2.2	3.0	V	I _E =10 mA
Luminous intensity (average)	510	1800		μ cd	$I_{\rm F}$ = 10 mA
Peak emission wavelength				,	
High efficiency red (HER)		630		nm	
Green		562		nm	
Yellow		585		nm	
Spectral line half width		40		nm	
Dynamic resistance — segment		26		ohm	I ₌ =20 mA
Switching time		500		ns	
Reverse voltage		6.0		V	$l_{\rm B} = 100 \mu A$

INTERNAL C	IRCUIT DIAGR	AMS					
		Pin connection	ıs				
11 10 -	Electrical			Electrical			
12 9	Pin No	connections		Pin No	connections		
14 1/ 7	1	Bar 1 anode		11	Bar 10 cathode		
15 1/ 6	2	Bar 2 anode		12	Bar 9 cathode		
16 14 5	3	Bar 3 anode		13	Bar 8 cathode		
17 14 4	4	4 Bar 4 anode		14	Bar 7 cathode		
18 14 3	5	5 Bar 5 anode		15	Bar 6 cathode		
19 14 2	6	Bar 6 anode		16	Bar 5 cathode		
+ 1	7	Bar 7 anode		17	Bar 4 cathode		
	8	Bar 8 anode		18	Bar 3 cathode		
	9	Bar 9 anode		19	Bar 2 cathode		
	10	Bar 10 anode		20	Bar 1 cathode		
MULTICOLOR BARGRAPH SEGMENT COLOR							
Segment	MV5A164	MV5B164	MV5C164	MV5D1	64 MV5E164		
1	HER	HER	Green	Green	Green		
2	HER	HER	Green	Green	Yellow		
3	HER	Yellow	Green	Green	Yellow		
4	Yellow	Yellow	Green	Green	Yellow		
5	Yellow	Green	Green	Green	Yellow		
6	Yellow	Green	Green	HER	Yellow		
7	Yellow	Yellow	Yellow	HER	Yellow		
8	Green	Yellow	Yellow	HER	HER		
9	Green	HER	Yellow	HER	HER		
10	Green	HER	HER	Yellow	/ HER		



MULTICOLOR BARGRAPH

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