

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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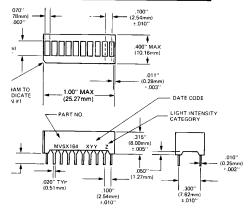






MV5A164 MV5D164 MV5B164 MV5E164 MV5C164

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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