

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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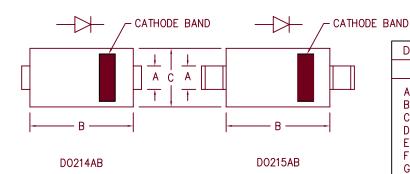
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



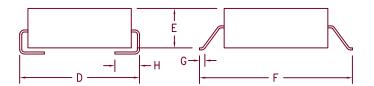




3 Amp Schottky Rectifier 5820SM — 5822SM



Dim. Inches			Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
Α	.117	.123	2.97	3.12	
В	.260	.280	6.60	7.11	
С	.220	.245	5.59	6.22	
D	.307	.322	7.80	8.18	
Ε	.075	.095	1.91	2.41	
F	.380	.400	9.65	10.16	
G	.025	.040	.640	1.02	
Н	.030	.060	.760	1.52	



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	Microsemi Catalog Number	Industry Part No.	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
	5820SM*	MBRS320T3 SK32	20V	20V
	5821SM*	MBRS330T3 SK33	30V	30V
	5822SM*	MBRS340T3 SK34	40V	40V
١	*Add Suffix	J For J Lead or G	For Gull Wing Lead	Configuration

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- High Reliability
- High Current Capability
- Surface mount package

		<u>5820SM</u>	<u>5821SM</u>	<u>5822SM</u>	
Average forward current Maximum surge current Max peak forward voltage Max peak forward voltage Max peak forward voltage Max peak reverse current Typical junction capacitance	IF(AV) IFSM VFM VFM VFM IRM CJ	3A 150A .36V .46V .65V 1.5mA 265pF	3A 150A .37V .48V .67V 1.5mA 265pF	3A 150A .38V .50V .70V 1.5mA 265pF	Square wave, TL = 127°C, R0JL = 20°C/8.3ms, half sine, TJ = 150°C FM = 1A, TJ = 25°C* FM = 3A, TJ = 25°C* FM = 9.4A, TJ = 25°C* VRRM, TJ = 25°C VR = 5.0V, TJ = 25°C

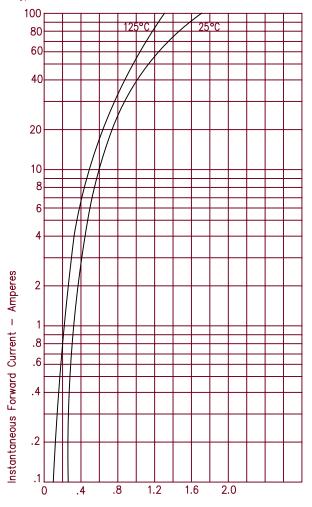
	Thermal and Mechanic	al Characteristics
Storage temperature range Operating junction temp range Maximum thermal resistance Weight	TSTG TJ R O JL	-55°C to 150°C -55°C to 150°C 20°C/W Junction to Lead .008 ounces (.22 grams) typical

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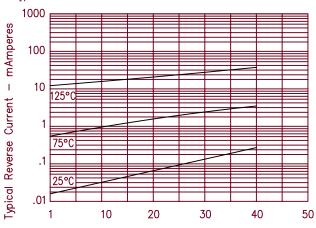
5820SM - 5822SM

Figure 1 Typical Forward Characteristics

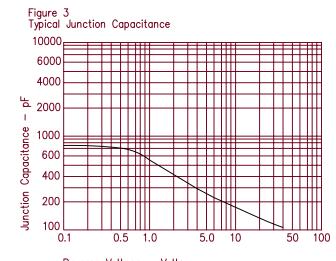


Instantaneous Forward Voltage — Volts

Figure 2 Typical Reverse Characteristics



Reverse Voltage - Volts



Reverse Voltage — Volts