

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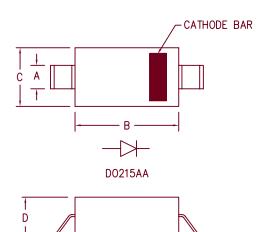
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







1 Amp Schottky Rectifier 5817SMG - 5819SMG



Dim. Inches			Millimeter		
	Minimum	Maximum	Minimum	Maximum Notes	
Α	.081	.087	2.06	2.21	
В	.160	.180	4.06	4.57	
С	.130	.155	3.30	3.94	
D	.077	.104	1.95	2.64	
Е	.234	.256	5.95	6.50	

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
5817SMG	20V	20V
5818SMG	30V	30V
5819SMG	40V	40V

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

		<u>5817SMG</u>	<u>5818SMG</u>	<u>5819SMG</u>	
Average forward current	IF(AV)	1A_	1A	1A_	Square wave
Lead Temperature		136°C	133°C	133°C	RéJL = 30°C/W
Maximum surge current	I FSM V FM	50A	50A	50A	8.3ms, half sine, $^{T}J = 150^{\circ}C$
Max peak forward voltage	VFМ	.32V	.37V	.37V	1 FM = 0.1A, 1 J = 25 $^{\circ}$ C*
Max peak forward voltage	V_{FM}	.45V	.55V	.55V	1 FM = 1.0A, 7 J = 25°C *
Max peak forward voltage	٧FM	.65V	.85V	.85V	$IFM = 3.0A, TJ = 25^{\circ}C^{*}$
Max peak reverse current	^I RM	1mA	1mA	1mA	V_{RRM} , $T_{J} = 25$ °C
Typical junction capacitance	СЈ	105pF	50pF	50pF	$V_{R} = 5.0V, T_{J} = 25^{\circ}C$

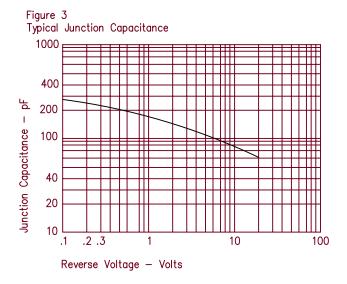
	Thermal and	Mechanical Characteristics
Storage temperature range Operating junction temp range Maximum thermal resistance Weight	TSTG TJ R O JL	-55°C to 150°C -55°C to 150°C 25°C/W Junction to Lead .0047 ounces (.013 grams) typical

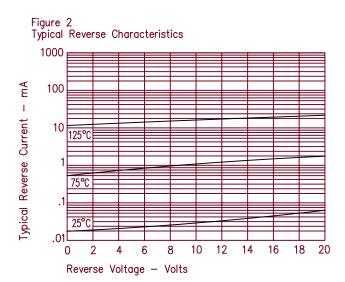
www.microśemi.com



5817SMG

Figure 1 Typical Forward Characteristics 100 80 60 40 20 10 8.0 6.0 4.0 Instantaneous Forward Current — Amperes 2.0 1.0 8. .6 .4





.6

Instantaneous Forward Voltage - Volts

8.

1.0

1.2

1.4

.2

0

.2

5818SMG & 5819SMG



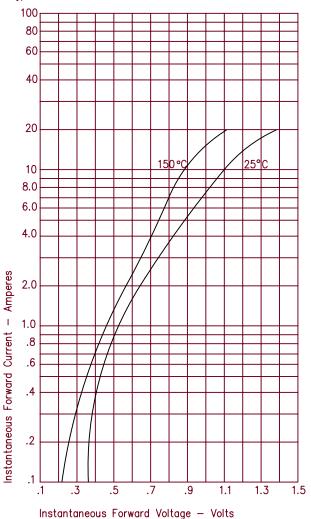


Figure 2

