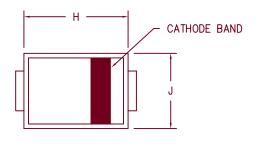
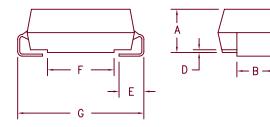
1 Amp Schottky Rectifiers 5817SMJ - 5819SMJ





Dim.	Inches		Millimeter			
	Minimum	Maximum	Minimum	Maximum	Notes	
Α	.078	.116	1.98	2.95		
В	.075	.089	1.90	2.25		
С	.002	.008	0.05	0.20		
D		.020		0.51		
E	.035	.055	0.89	1.40		
F	.065	.091	1.65	2.32		
G	.205	.224	5.21	5.69		
H	.160	.180	4.06	4.57		
J	.130	.155	3.30	3.94		

SMB

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
5817SMJ	SK12 MBRS120T3	20V	20V
5818SMJ	SK13 MBRS130T3	30V	30V
5819SMJ	MBRS130TR SK14 MBRS140T3	40V	40V

- Underwriters Laboratory Flammability Class 94V-0
- Schottky Barrier Rectifier
- Guard ring protection
- Low forward voltage
- Low thermal resistance rating

Electrical Characteristics

Average forward current Lead temperature Maximum surge current Max peak forward voltage Max peak forward voltage Max peak forward voltage Max peak reverse current Typical junction capacitance	F(AV) T
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		5817	SMJ	5818	SMJ	5819	9SMJ
l F(AV)		1A				1A	
Ti		117°C		118°C		118°C	
I FSM		50A		50A		50A	
VFM		.32V		.37V		.37٧	
VFM		.45V		.55V		.55V	
VFM		.65V		.85V		.85V	
I RM		1mA		1mA		1mA	
Cl		105pF		50pF		50pF	
*Pulse test:	Pulse	width	300	μsec,	Duty	cycle	2%

Square wave $R\Theta JC = 15^{\circ}C/W$ 8.3ms, half sine, $TJ = 150^{\circ}C$ $IFM = 0.1A:TJ = 25^{\circ}C*$ $IFM = 1.0A:TJ = 25^{\circ}C*$ $IFM = 3.0A:TJ = 25^{\circ}C*$ $VRM,TJ = 25^{\circ}C$ $VR = 5.0V,TJ = 25^{\circ}C$

Thermal and Mechanical Characteristics

Storage temperature range Operating junction temp range Maximum thermal resistance Weight T_{STG} T_J R_ØJC

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-55°C to 150°C -55°C to 150°C 15°C/W Junction to lead .0047 ounces (.013 grams) typical



8700 East Thomas Road, P.O. Box 1390 Scottsdale, AZ 85252 PH: (480) 941–6300 FAX: (480) 947–1503

05-09-07 Rev. 6

5817SMJ



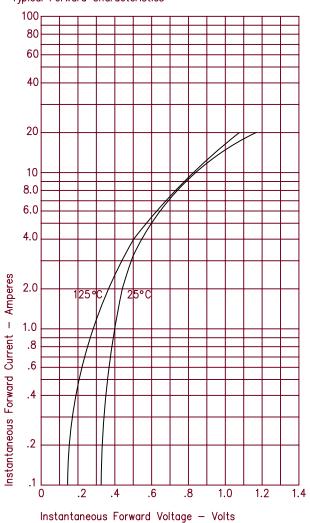
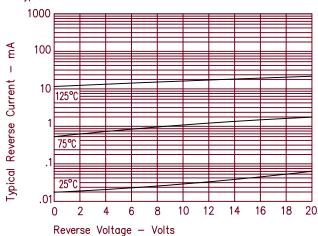
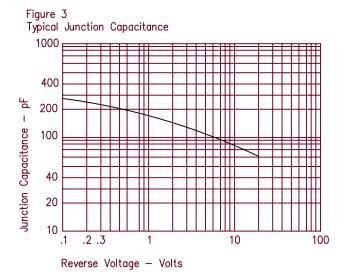


Figure 2 Typical Reverse Characteristics





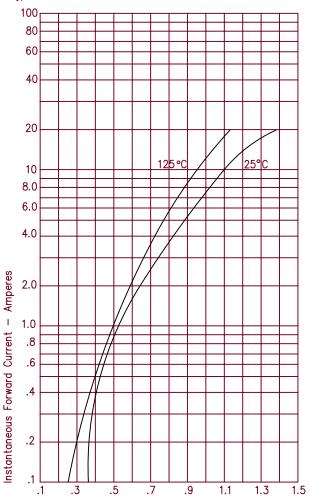
5818SMJ & 5819SMJ

Figure 3

1000

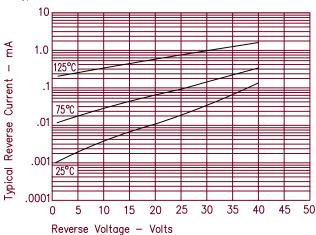
Typical Junction Capacitance





400 200 100 80 100 100 100 100 Reverse Voltage – Volts

Figure 2 Typical Reverse Characteristics



Instantaneous Forward Voltage - Volts