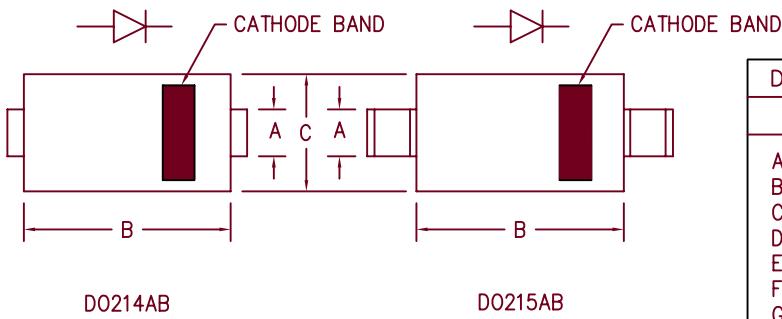
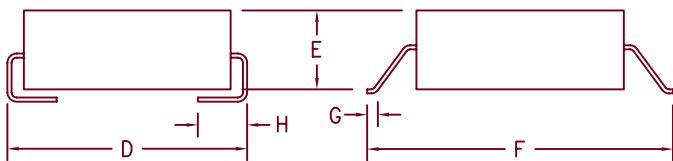


3 Amp Schottky Rectifier

5820SM — 5822SM



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



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

*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

Electrical Characteristics

	5820SM	5821SM	5822SM	
Average forward current	I _{F(AV)}	3A	3A	3A
Maximum surge current	I _{FSM}	150A	150A	150A
Max peak forward voltage	V _{FM}	.36V	.37V	.38V
Max peak forward voltage	V _{FM}	.46V	.48V	.50V
Max peak forward voltage	V _{FM}	.65V	.67V	.70V
Max peak reverse current	I _{RM}	1.5mA	1.5mA	1.5mA
Typical junction capacitance	C _J	265pF	265pF	265pF

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range	T _{STG}	-55°C to 150°C
Operating junction temp range	T _J	-55°C to 150°C
Maximum thermal resistance	R _{θJL}	20°C/W Junction to Lead
Weight		.008 ounces (.22 grams) typical

5820SM—5822SM

Figure 1
Typical Forward Characteristics

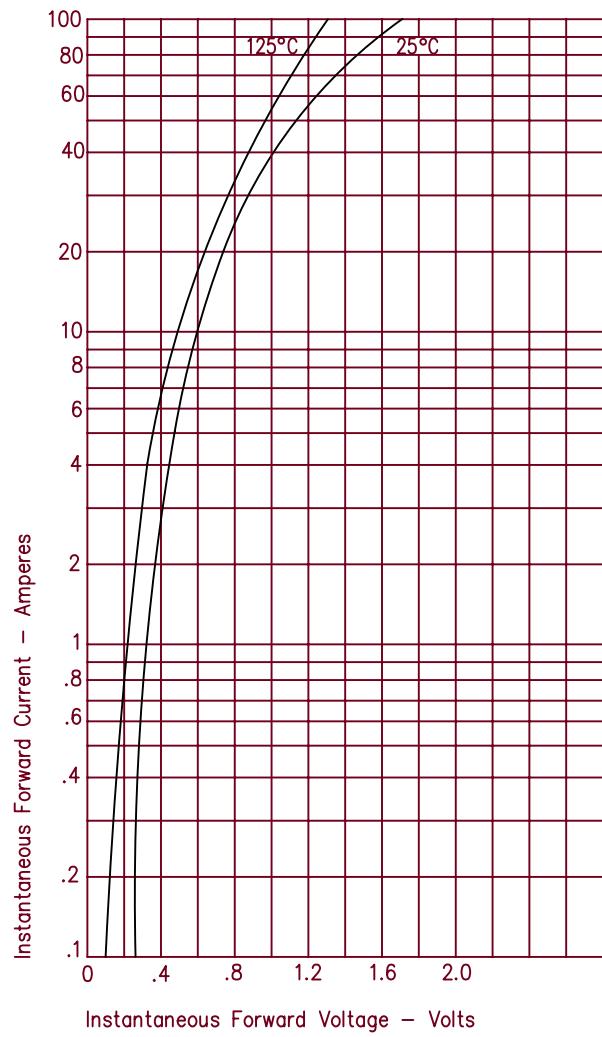


Figure 3
Typical Junction Capacitance

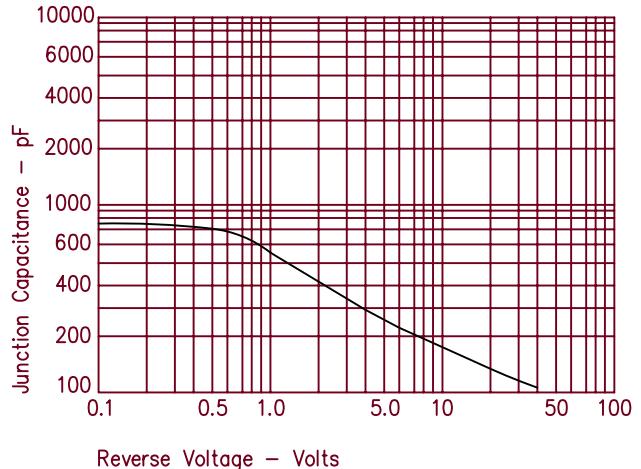


Figure 2
Typical Reverse Characteristics

