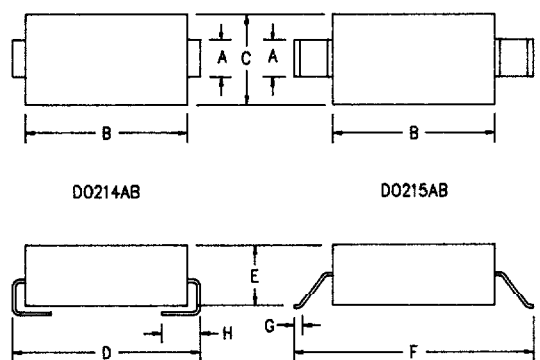




3 Amp Schottky Rectifier

5820SM, 5821SM, 5822SM



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.117	.123	2.21	2.97	
B	.260	.280	4.57	6.60	
C	.220	.245	3.94	5.58	
D	.307	.322	5.59	7.80	
E	.075	.095	1.90	2.41	
F	.380	.400	6.86	7.37	
G	.025	.040	.381	.762	
H	.030	.060	.760	1.52	

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
5820SM*	20V	20V
5821SM*	30V	30V
5822SM*	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					
		5820	5821	5822	
Average forward current	$I_F(AV)$	3A	3A	3A	Square wave 8.3ms, half sine, $T_J = 150^\circ C$ $I_{FM} = 1A, T_J = 25^\circ C^*$ $I_{FM} = 3A, T_J = 25^\circ C^*$ $I_{FM} = 9.4A, T_J = 25^\circ C^*$ $V_{RRM}, T_J = 25^\circ C$ $V_R = 5.0V, T_J = 25^\circ C$
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}	-40°C to 150°C
Operating junction temp range	T_J	-40°C to 150°C
Weight		.008 ounces (.22 grams) typical



PH: 303-469-2161
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5820SM, 5821SM, 5822SM

Figure 1
Typical Forward Characteristics

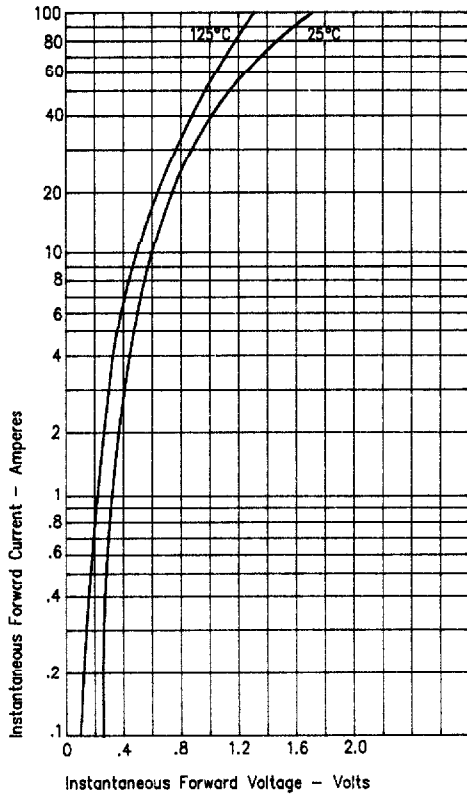


Figure 3
Typical Junction Capacitance

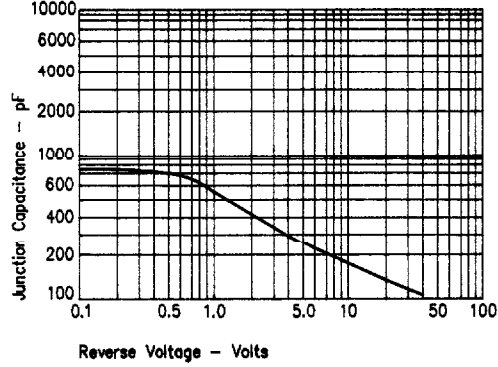


Figure 2
Typical Reverse Characteristics

