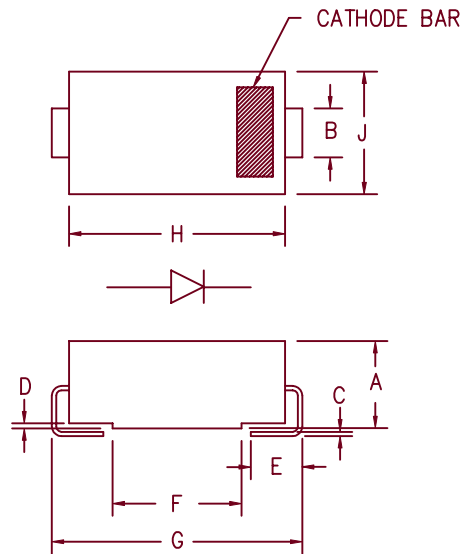


# 1 Amp Schottky Rectifier SS12



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.078	.115	1.98	2.92	
B	.068	.087	1.73	2.21	
C	---	.005	---	0.13	
D	---	.020	---	0.51	
E	.030	.060	0.76	1.52	
F	.065	.084	1.65	2.13	
G	.194	.228	4.93	5.79	
H	.157	.177	3.99	4.50	
J	.100	.110	2.57	2.79	

SMA (DO-214AC)

Microsemi  
Catalog Number  
SS12

Working  
Peak Reverse  
Voltage  
20V

Repetitive  
Peak Reverse  
Voltage  
20V

- Low Forward Voltage
- Schottky Barrier Rectifier
- Guard Ring Protection
- 125°C Junction Temperature
- $V_{RRM}$  20 Volts

## Electrical Characteristics

Average forward current  
Maximum surge current  
Max peak forward voltage  
Max peak reverse current  
Typical junction capacitance

$I_F(AV)$  1.0 Amps  
 $I_{FSM}$  30 Amps  
 $V_{FM}$  .45 Volts  
 $I_{RM}$  0.5 mA  
 $C_J$  110pF

$T_A = 75^\circ\text{C}$ , Square wave  
8.3ms, half sine,  $T_J = 150^\circ\text{C}$   
 $I_{FM} = 1.0A; T_J = 25^\circ\text{C}^*$   
 $V_{RRM}, T_J = 25^\circ\text{C}$   
 $V_R = 4.0V, T_J = 25^\circ\text{C}$

\*Pulse test: Pulse width 300  $\mu\text{sec}$ . Duty cycle 2%

## Thermal and Mechanical Characteristics

Storage temperature range  
Operating junction temp range  
Typical thermal Resistance  
Weight

$T_{STG}$   
 $T_J$   
 $R_{\theta JL}$

$-55^\circ\text{C}$  to  $150^\circ\text{C}$   
 $-55^\circ\text{C}$  to  $125^\circ\text{C}$   
15°C/W Junction to lead  
.0047 ounces (.013 grams) typical

9-27-02 Rev. 1