

SK225

Features

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- Reverse Energy Tested
- High Current Capability
- Extremely Low Thermal Resistance

Maximum Ratings

- Operating Temperature: -40°C to +150°C
- Storage Temperature: -40°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead
- Weight: .003 ounces (.0093 grams) typical

Microsemi catalog Number	Device Marking	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
SK225		25V	25V

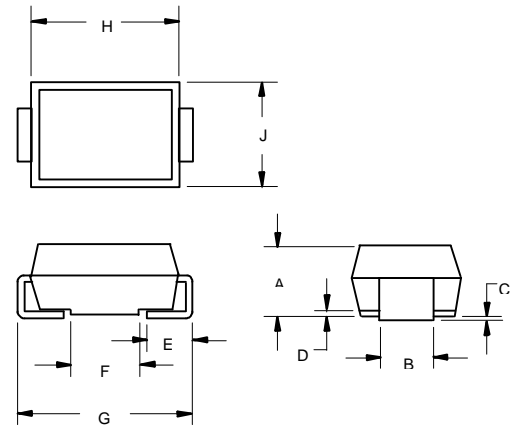
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average forward current	$I_{F(AV)}$	2A	Square wave
Maximum surge current	I_{FSM}	50A	8.3ms, half sine, $T_J = 150^\circ\text{C}$
Max peak forward voltage	V_{FM}	.55V	$I_{FM} = 2.0\text{A}; T_J = 25^\circ\text{C}^*$
Max peak reverse current	I_{RM}	500 μA	$V_{RRM}, T_J = 25^\circ\text{C}$
Typical junction capacitance	C_J	50pF	$V_R = 5.0\text{V}, T_J = 25^\circ\text{C}$

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

2 Amp Schottky Rectifier

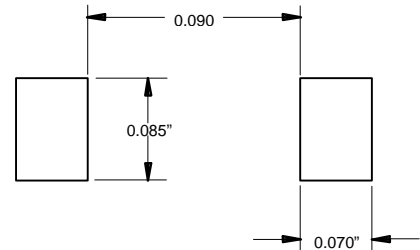
DO-214AA (SMBJ)



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.075	.115	1.90	2.92	1
B	.081	.087	2.06	2.21	
C	.004	.008	.10	.20	
D	---	.02	---	.51	
E	.030	.060	.76	1.52	
F	.065	.084	1.65	2.13	
G	.205	.220	5.21	5.59	
H	.160	.180	4.06	4.57	
J	.130	.155	3.30	3.94	

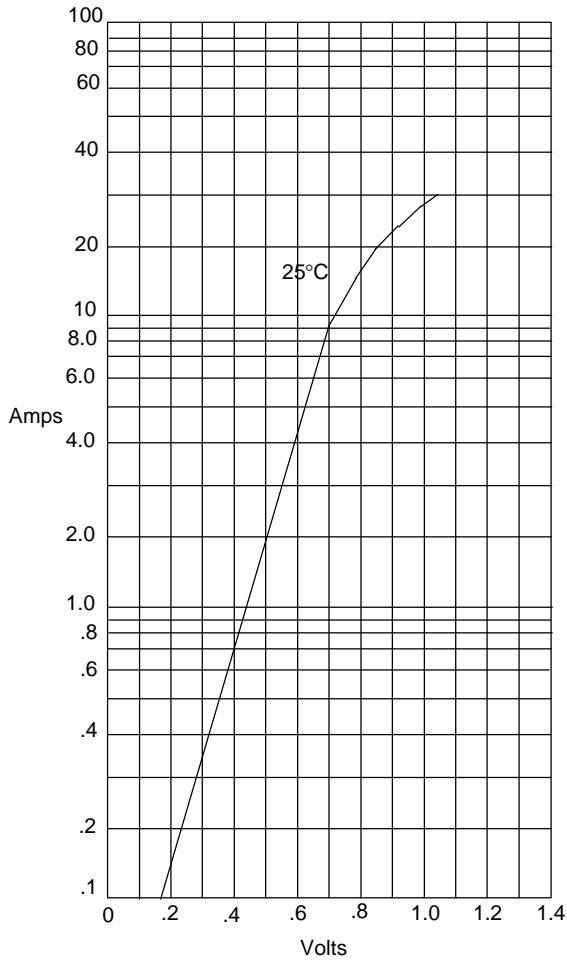
1) Maximum Jeduc Spec is .096" or 2.44 MM

SUGGESTED SOLDER PAD LAYOUT



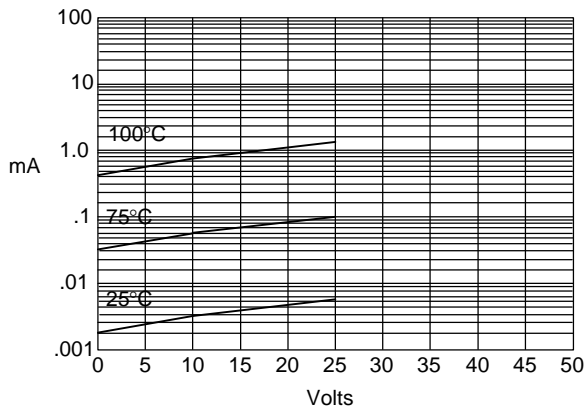
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Figure 1
Typical Forward Characteristics



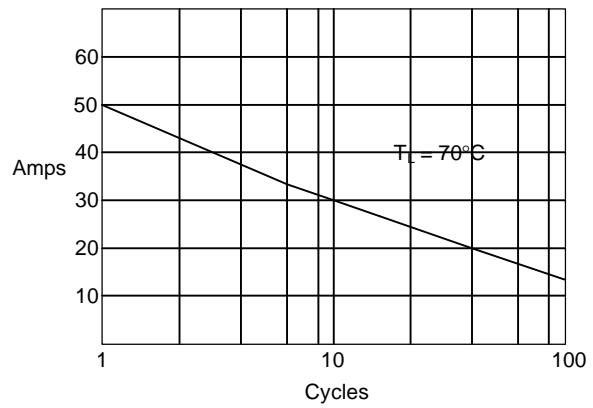
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



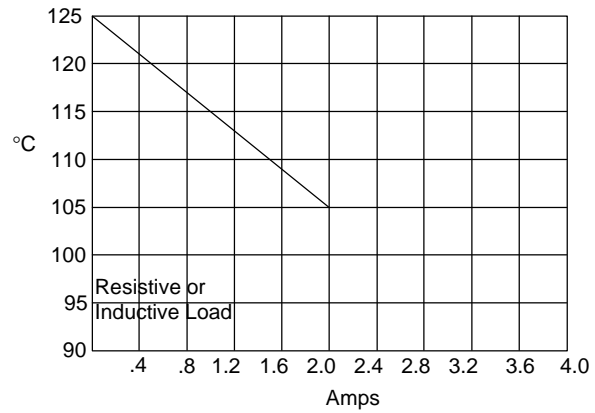
Typical Reverse Current - mA versus
Reverse Voltage - Volts

Figure 3
Maximum Nonrepetitive Surge Current



Peak Forward Current - Amperes versus
Number of Cycles at 60Hz

Figure 4
Forward Current Derating



Maximum Allowable Case Temperature °C versus
Average Forward Current - Amperes

Figure 5
New SMB Assembly

