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SK22 thru SK210

Features

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

2 Amp Schottky Rectifier 20 - 100 Volts

Maximum Ratings

- Operating Temperature: -65°C to +175°C
- Storage Temperature: -65°C to +175°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

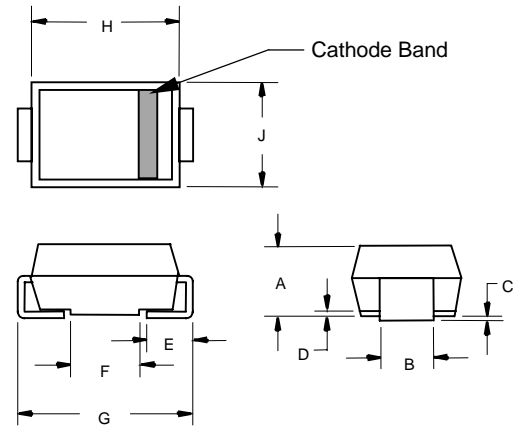
Microsemi Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK22	SK22	20V	14V	20V
SK23	SK23	30V	21V	30V
SK24	SK24	40V	28V	40V
SK25	SK25	50V	35V	50V
SK26	SK26	60V	42V	60V
SK28	SK28	80V	56V	80V
SK210	SK210	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	$T_J = 90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	SK22-SK24 SK25-26 SK28-210 .50V .70V .85V	$I_{FM} = 2.0A$; $T_A = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	.5mA	$T_A = 25^\circ\text{C}$
Typical Junction Capacitance	C_J	SK22 SK23-SK210 230pF 50pF	Measured at 1.0MHz, $V_R=4.0V$

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

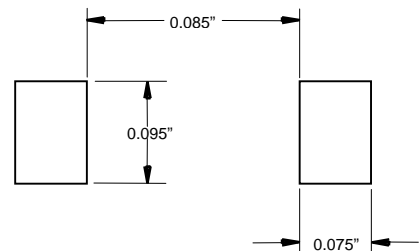
DO-214AA (SMBJ)



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.095	.115	2.42	2.92	1
B	.081	.087	2.06	2.21	
C	---	.008	---	.40	
D	---	.02	---	.51	
E	.030	.060	.76	1.52	
F	.065	.084	1.65	2.13	
G	.205	.228	5.21	5.79	
H	.160	.180	4.06	4.57	
J	.130	.155	3.30	3.94	

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

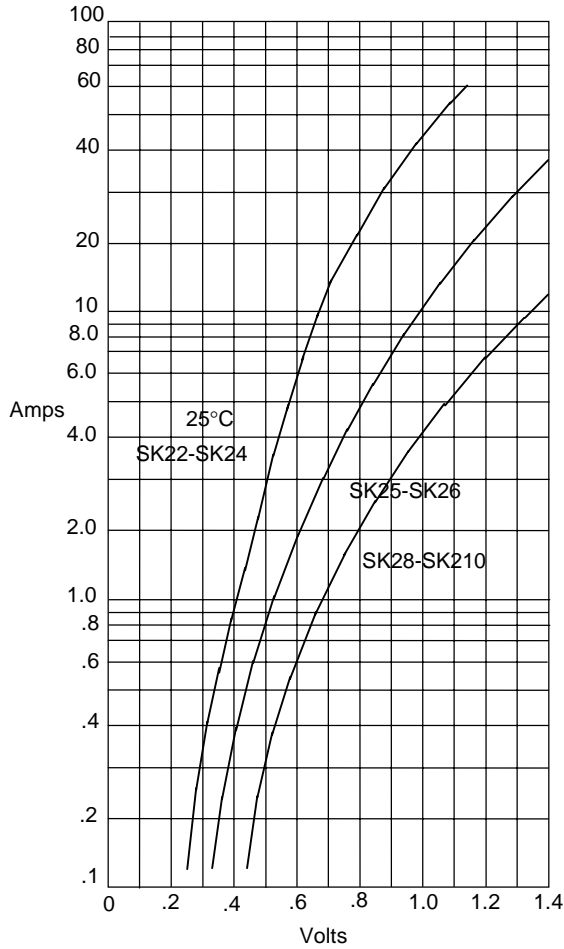
SUGGESTED SOLDER PAD LAYOUT



SK22 thru SK210

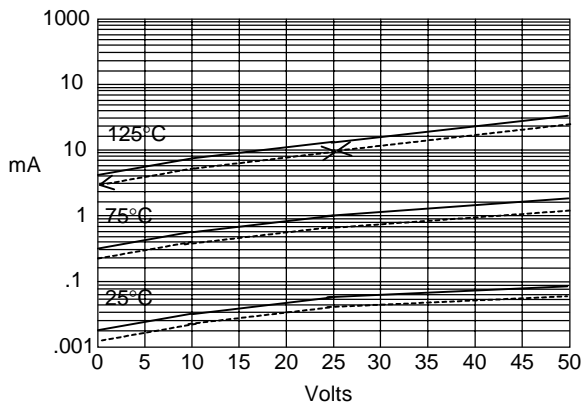


Figure 1
Typical Forward Characteristics



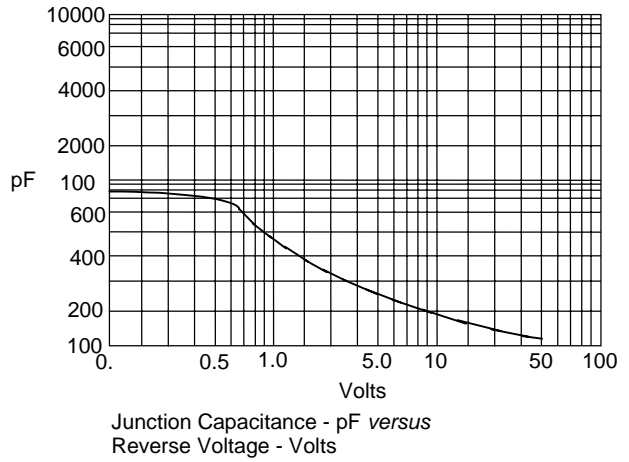
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



Typical Reverse Current - mA versus
Reverse Voltage - Volts

Figure 3
Typical Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

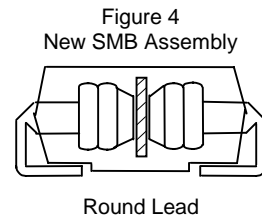
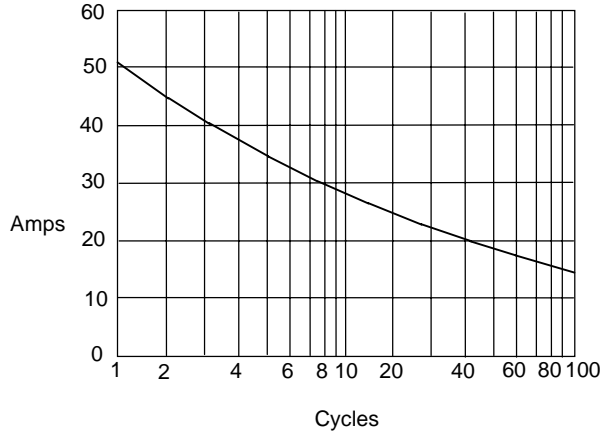


Figure 4
New SMB Assembly

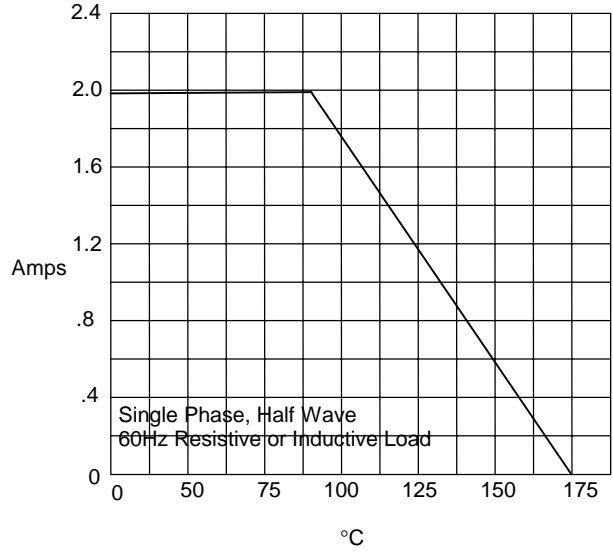
Round Lead

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles

Figure 6
Forward Derating Curve



Single Phase, Half Wave
60Hz Resistive or Inductive Load

Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C