

Features

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

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 15 °C/W Junction To Lead

MCC Catalog 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

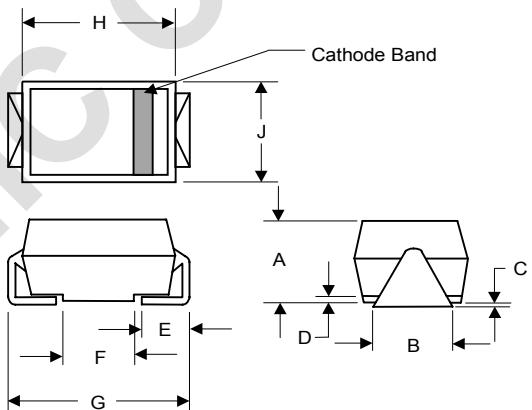
Electrical Characteristics @ 25°C Unless Otherwise Specified

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-SK26 SK28-SK210		.55V .70V .85V	$I_{FM} = 2.0\text{A}; T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R		$T_J = 25^\circ\text{C}$
		0.5 mA	
Typical Junction Capacitance	C_J	230pF 50pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

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

2 Amp Schottky Rectifier 20 to 100 Volts

DO-214AA (SMBJ) (Round Lead)



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.078	.116	1.98	2.95	
B	.075	.089	1.90	2.25	
C	.002	.008	.05	.20	
D	----	.02	----	.51	
E	.035	.055	.90	1.40	
F	.065	.091	1.65	2.32	
G	.205	.224	5.21	5.69	
H	.160	.180	4.06	4.57	
J	.130	.155	3.30	3.94	

SUGGESTED SOLDER PAD LAYOUT

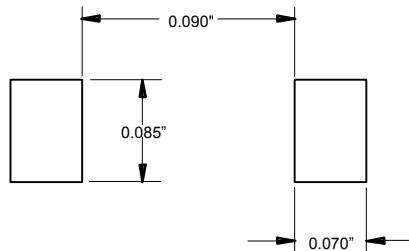
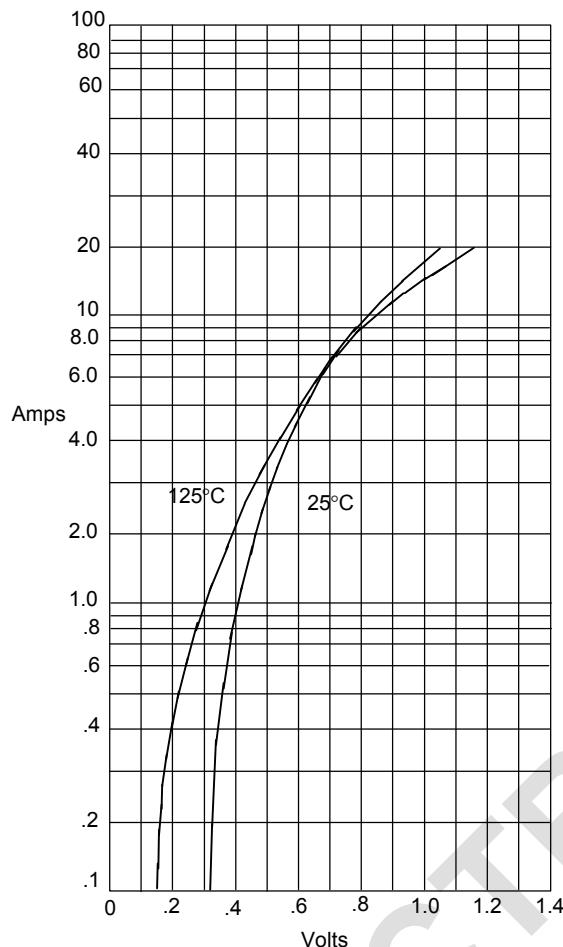
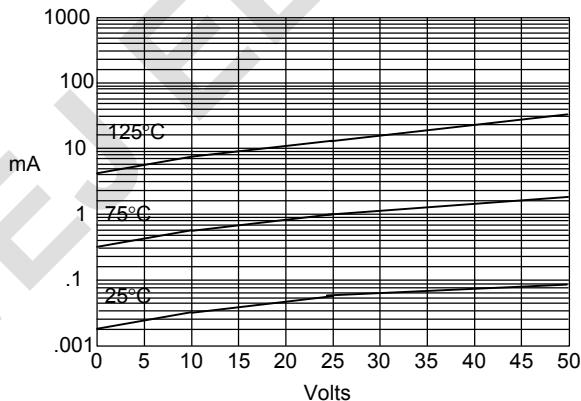


Figure 1
Typical Forward Characteristics



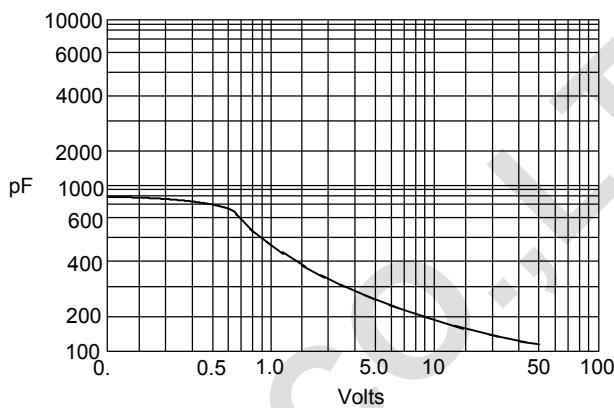
Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



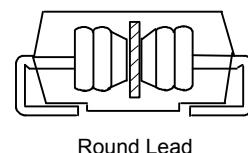
Typical Reverse Current - mAversus
Reverse Voltage - Volts

Figure 3
Typical Junction Capacitance



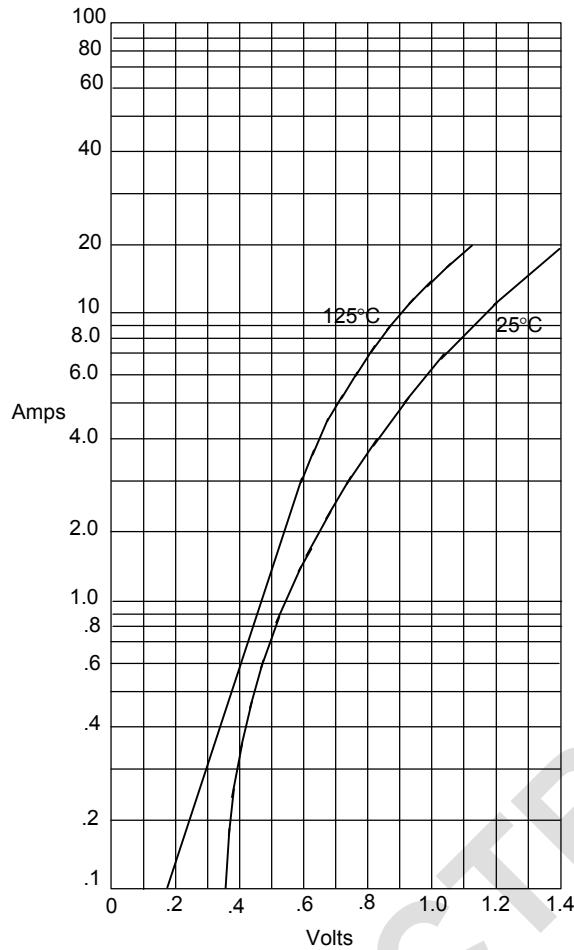
Junction Capacitance - pFversus
Reverse Voltage - Volts

Figure 4
New SMB Assembly



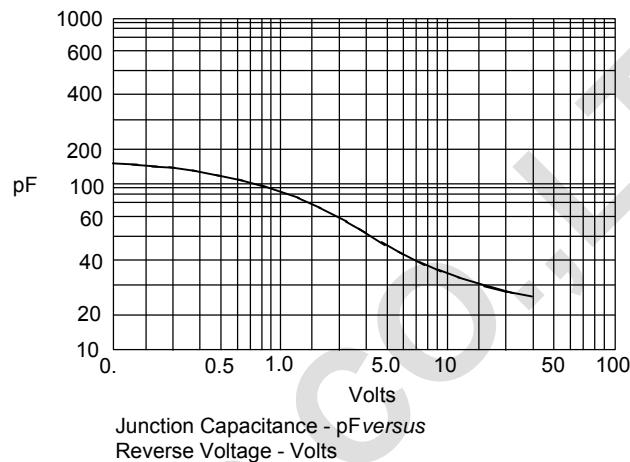
Round Lead
Process

Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

Figure 3
Typical Junction Capacitance



Junction Capacitance - pFversus
Reverse Voltage - Volts

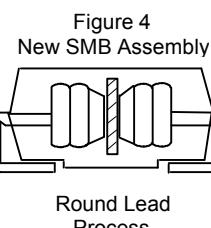
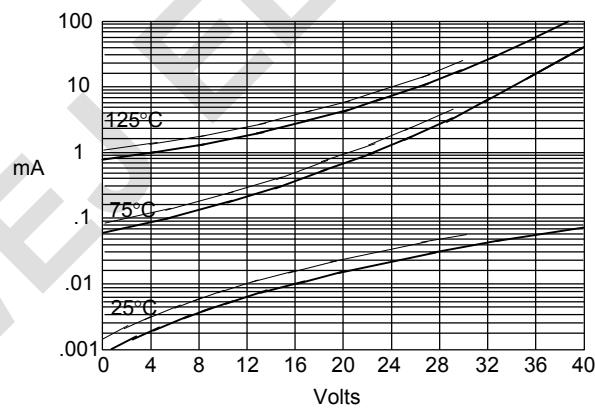


Figure 4
New SMB Assembly

Round Lead
Process

Figure 2
Typical Reverse Characteristics



Typical Reverse Current - mAversus
Reverse Voltage - Volts