SK32 THRU SK310

Features

- Same Electrical Characteristics As The SMC Version
- Very Low Cost
- Can Be Up To 50% Smaller Than The SMC To Save Precious Board Space
- High Current Capability With Low Forward Voltage
- For Surface Mount Applications
- Gull Wing, Or DO215AC Version, Available

3 Amp Schottky Rectifier
20 to 100 Volts

Maximum Ratings

- Operating Temperature: -50°C to +125°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 10°C/W Junction To Lead

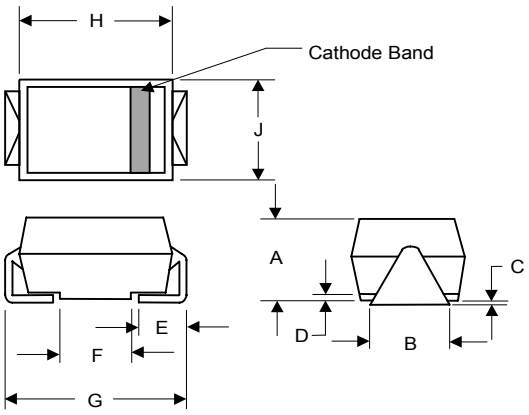
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK32A	SK32A	20V	14V	20V
SK33A	SK33A	30V	21V	30V
SK34A	SK34A	40V	28V	40V
SK35A	SK35A	50V	35V	50V
SK36A	SK36A	60V	42V	60V
SK38A	SK38A	80V	56V	80V
SK310A	SK310A	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	T_J = 120°C
Peak Forward Surge Current	I_{FSM}	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK32A-34A SK35A-36A SK38A-310A	V_F	 .50V .75V .85V	 I_{FM} = 3.0A; T_J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	.5mA 20mA	T_J = 25°C T_J = 100°C
Typical Junction Capacitance	C_J	45pF	Measured at 1.0MHz, V_R=4.0V

*Pulse test: Pulse width 200 μsec, Duty cycle 2%

DO-214AC (SMAJ) (High Profile)



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.078	.116	1.98	2.95	
B	.067	.089	1.70	2.25	
C	.002	.008	.05	.20	
D	---	.02	---	.51	
E	.035	.055	.89	1.40	
F	.065	.096	1.65	2.45	
G	.205	.224	5.21	5.69	
H	.160	.180	4.06	4.57	
J	.100	.112	2.57	2.84	

SUGGESTED SOLDER PAD LAYOUT

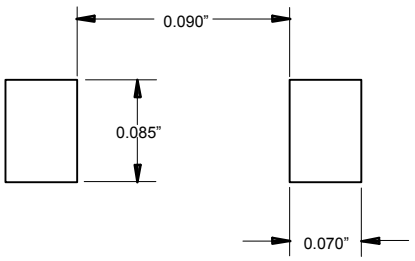


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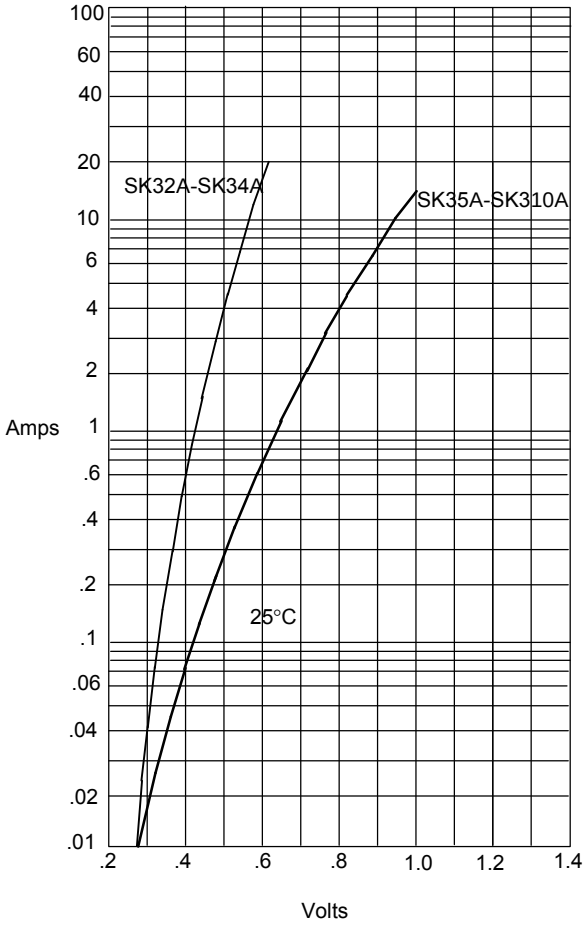
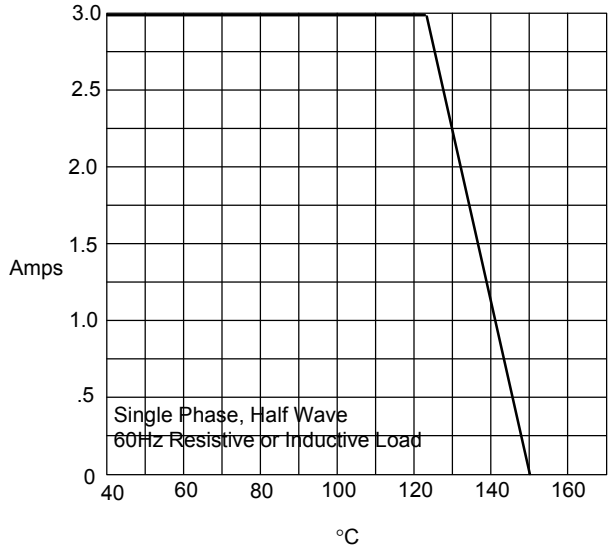
Figure 1
Typical Forward Characteristics



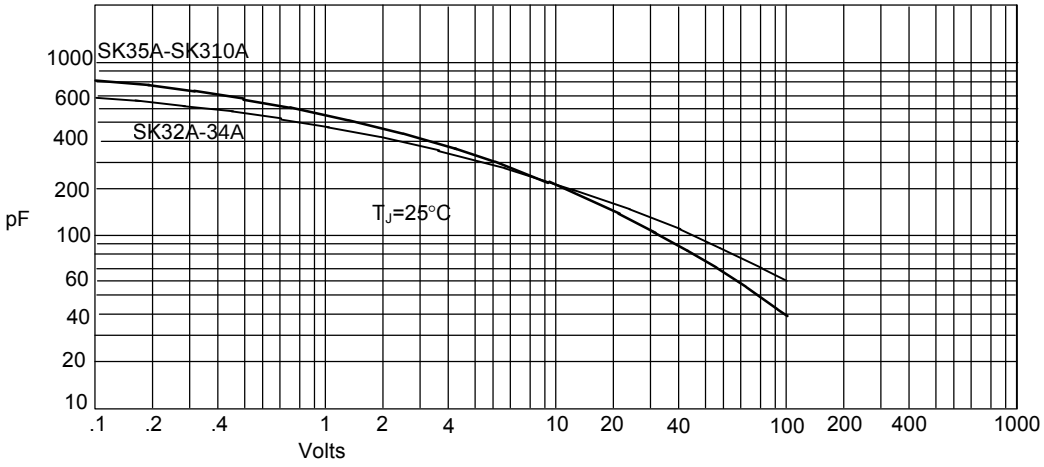
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

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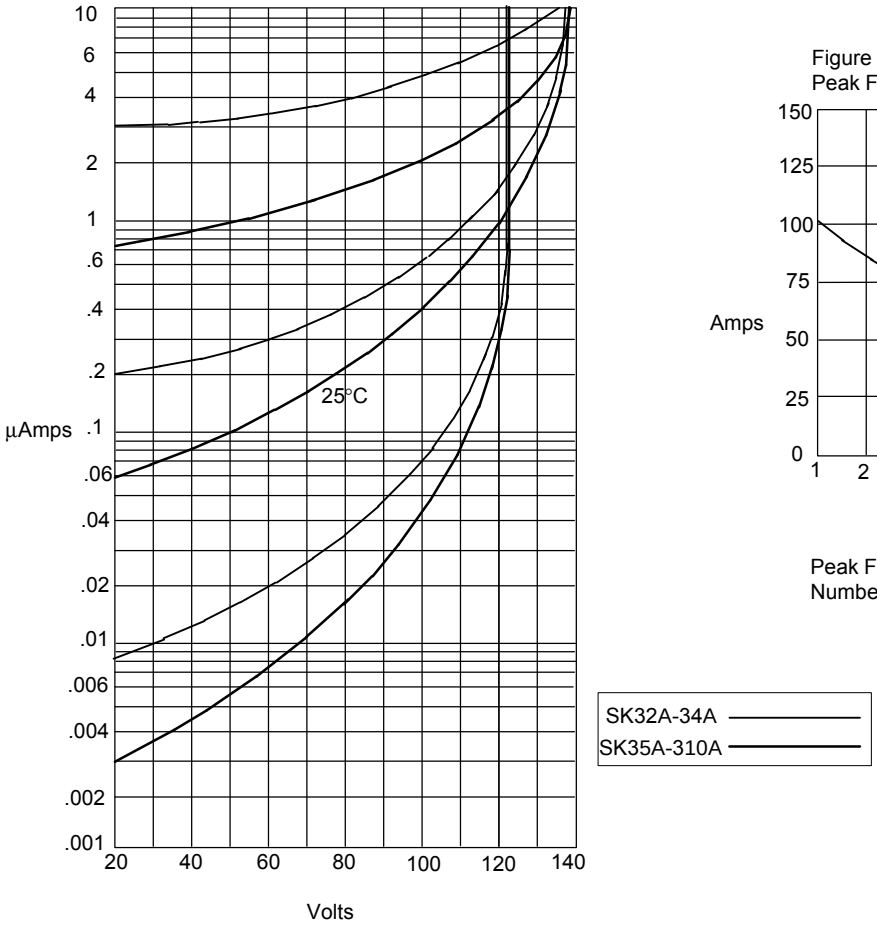
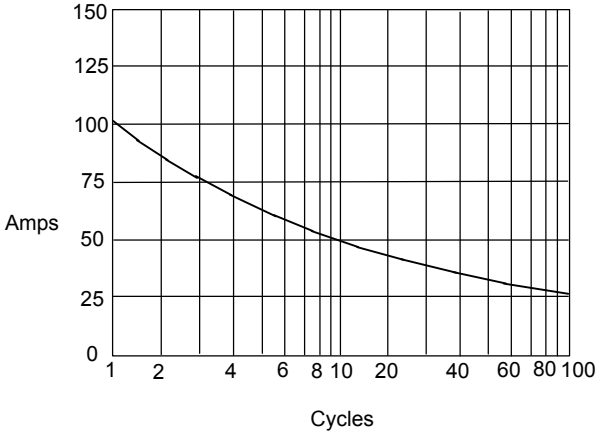
Figure 4
Typical Reverse Characteristics



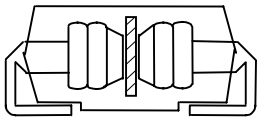
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5
Peak Forward Surge Current



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

Figure 6
New SMA Assembly



Round Lead