Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

SK32BG THRU SK310BG

3 Amp Schottky Rectifier 20 to 100 Volts

Features

- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Easy Pick And Place
- High Temp Soldering: 250°C for 10 Seconds At Terminals\
- High Current Capability With Low Forward Voltage

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 10°C/W Junction To Lead

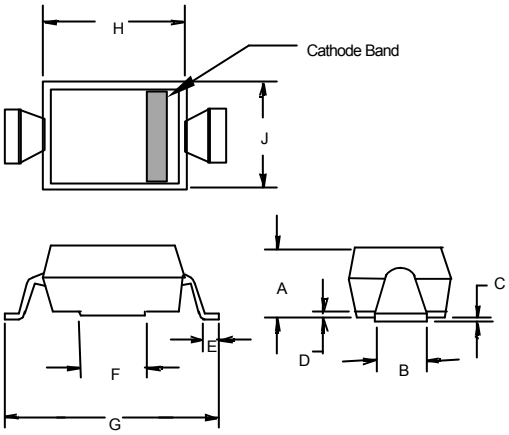
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK32BG	SK32B	20V	14V	20V
SK33BG	SK33B	30V	21V	30V
SK34BG	SK34B	40V	28V	40V
SK35BG	SK35B	50V	35V	50V
SK36BG	SK36B	60V	42V	60V
SK38BG	SK38B	80V	56V	80V
SK310BG	SK310B	100V	70V	100V

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 SK32BG-34BG SK35BG-36BG SK38BG-310BG	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

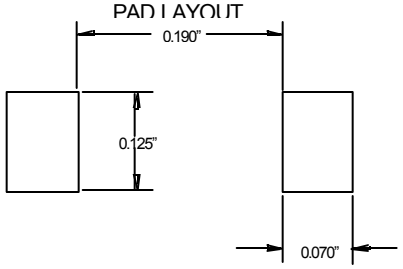
*Pulse test: Pulse width 200 µsec, Duty cycle 2%

DO-215AA (HSMBG) (Round Lead)



DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
A	.075	.116	1.90	2.95	
B	.078	.087	1.98	2.21	
C	.002	.008	.05	.20	
D	—	.02	—	.51	
E	.015	.03	.38	.76	
F	.065	.084	1.65	2.13	
G	.245	.276	6.22	7.00	
H	.160	.180	4.06	4.57	
J	.130	.151	3.30	3.83	

SUGGESTED SOLDER PAD LAYOUT



SK32BG thru SK310BG

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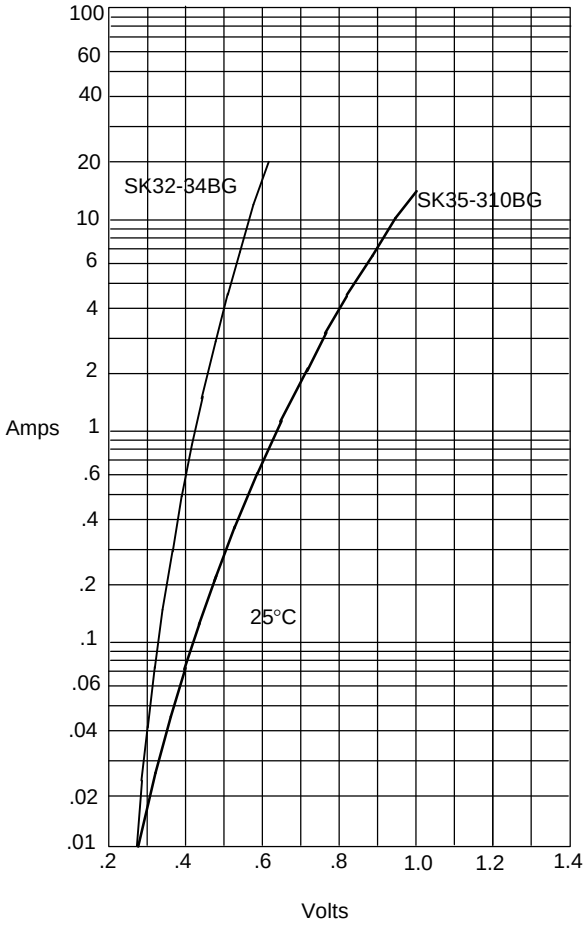
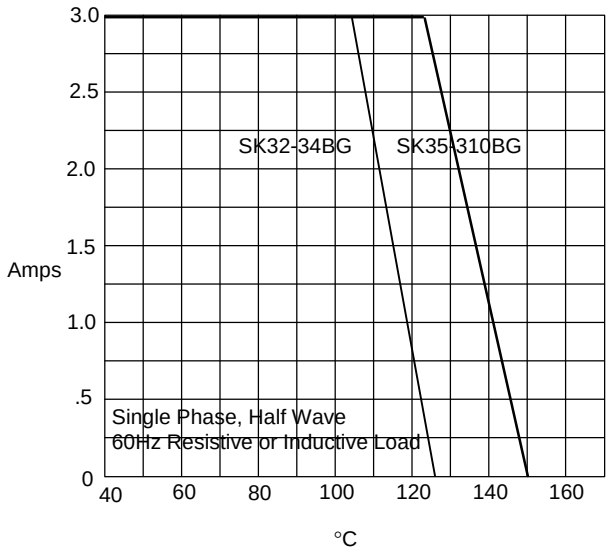
Figure 1
Typical Forward Characteristics



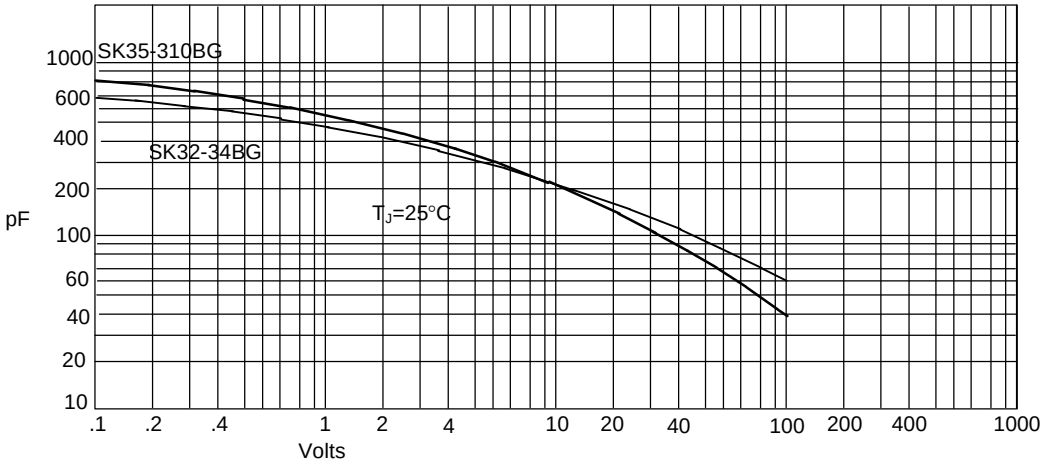
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



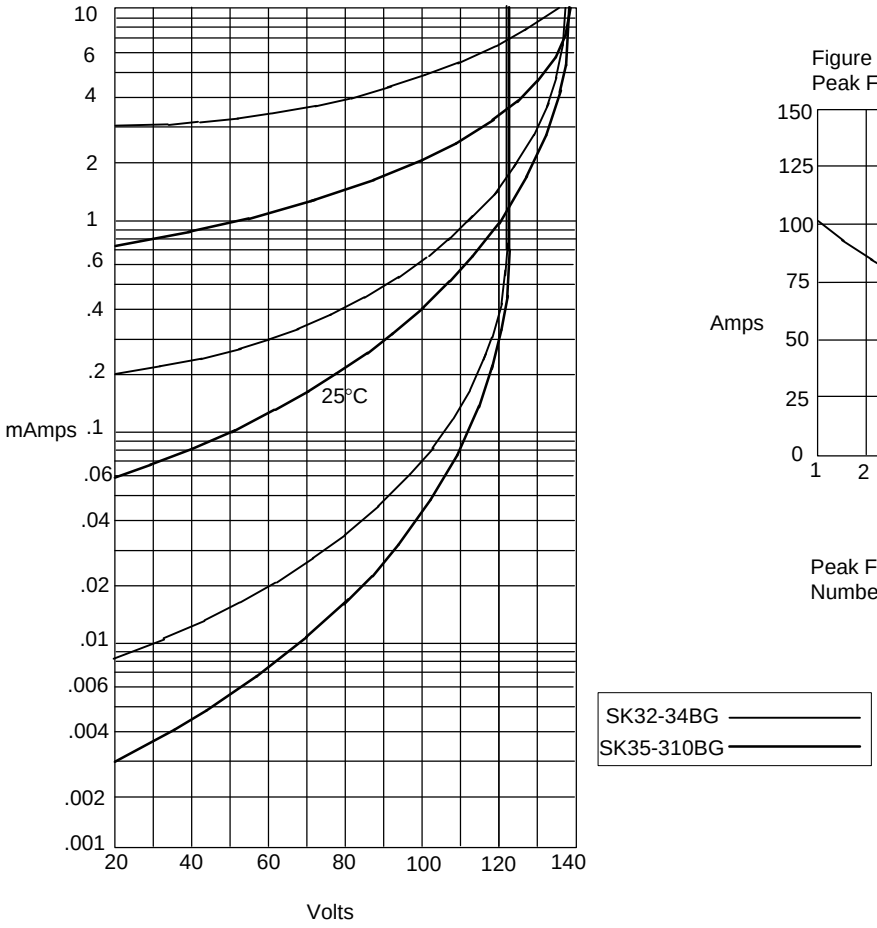
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

Figure 3
Junction Capacitance



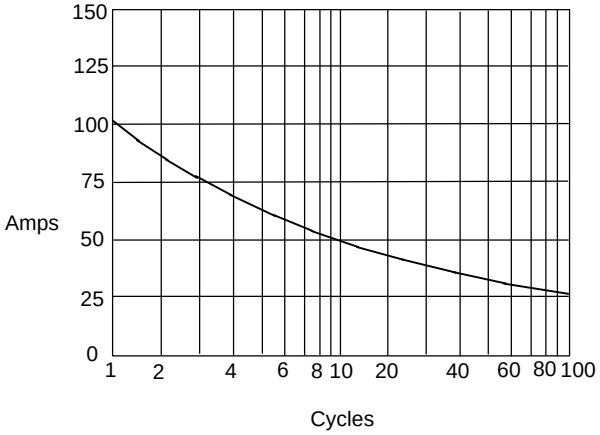
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

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