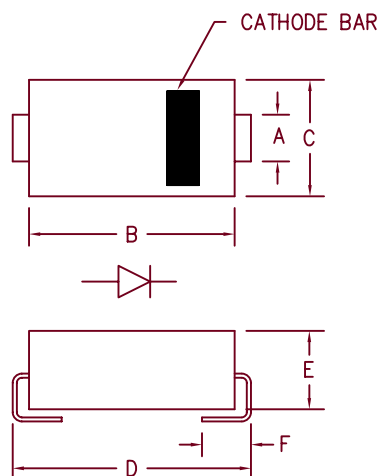


3 Amp Schottky Rectifiers SK32B — SK310B



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.068	.087	1.73	2.21	
B	.157	.177	3.99	4.50	
C	.130	.155	3.30	3.94	
D	.194	.228	4.93	5.79	
E	.078	.115	1.98	2.92	
F	.030	.060	.760	1.52	

SMB
DO-214AA

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
SK32B	20V	20V
SK33B	30V	30V
SK34B	40V	40V
SK36B	60V	60V
SK38B	80V	80V
SK310B	100V	100V

- Schottky Barrier Rectifier
- Low Forward Voltage Drop
- 20-100 Volts
- Low switching losses
- Round lead design

Electrical Characteristics

Average forward current	I _{F(AV)}	3.0A	T _J = 120°C
Maximum surge current	I _{FSM}	100A	8.3ms half-sine
Max repetitive reverse current	I _{R(OV)}	2A	f = 1KHZ, 25°C, 1μs square wave
Max peak forward voltage (SK32B-SK34B)	V _{FM}	.50V	I _{FM} = 3.0A; T _J = 25°C*
Max peak forward voltage (SK36B)	V _{FM}	.75V	I _{FM} = 3.0A; T _J = 25°C*
Max peak forward voltage (SK38B-SK310B)	V _{FM}	.85V	I _{FM} = 3.0A; T _J = 25°C*
Max peak reverse current	I _{RM}	.5mA	V _{RRM} , T _J = 25°C
Max peak reverse current	I _{RM}	20mA	V _{RRM} , T _J = 100°C*
Typical junction capacitance	C _J	250pF	V _R = 5.0V, T _J = 25°C

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

Thermal and Mechanical Characteristics

Storage temperature range	T _{STG}	-55°C to 150°C
Operating junction temp range	T _J	-55°C to 125°C
Maximum thermal resistance	R _{θJC}	10°C/W



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05-30-07 Rev. 2

SK32B — SK310B

Figure 1
Typical Forward Characteristics

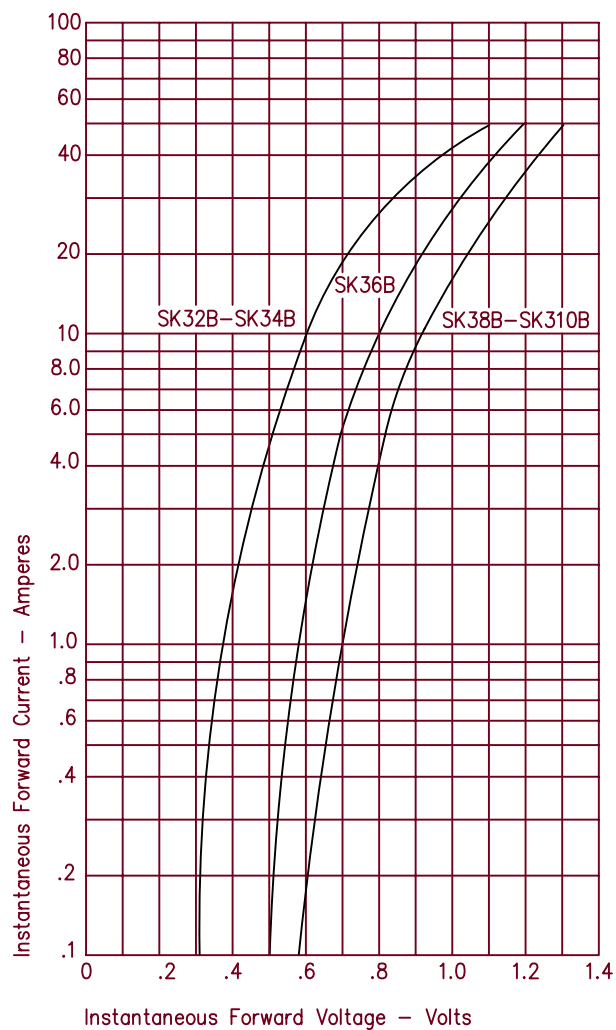


Figure 2
Typical Reverse Characteristics @ 100°C

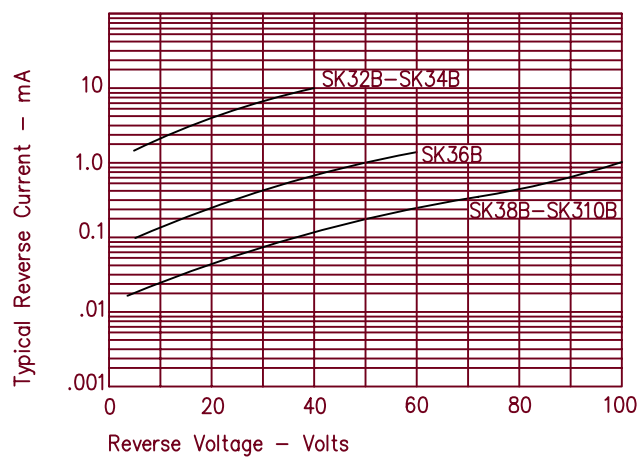


Figure 3
Typical Junction Capacitance

