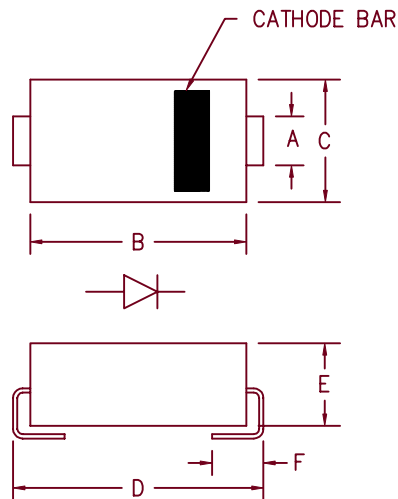


# 3 Amp Schottky Rectifiers SK32A — SK310A



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.068	.087	1.73	2.21	
B	.157	.177	3.99	4.50	
C	.100	.110	2.54	2.79	
D	.194	.228	4.93	5.79	
E	.078	.115	1.98	2.92	
F	.030	.060	.760	1.52	

SMA  
DO-214AC

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
SK32A	20V	20V
SK33A	30V	30V
SK34A	40V	40V
SK36A	60V	60V
SK38A	80V	80V
SK310A	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	$T_J = 120^\circ C$
Maximum surge current	$I_{FSM}$	100A	8.3ms half-sine
Max repetitive reverse current	$I_R(OV)$	2A	$f = 1KHZ, 25^\circ C, 1\mu s$ square wave
Max peak forward voltage (SK32A–SK34A)	$V_{FM}$	.50V	$I_{FM} = 3.0A; T_J = 25^\circ C^*$
Max peak forward voltage (SK36A)	$V_{FM}$	.75V	$I_{FM} = 3.0A; T_J = 25^\circ C^*$
Max peak forward voltage (SK38A–SK310A)	$V_{FM}$	.85V	$I_{FM} = 3.0A; T_J = 25^\circ C^*$
Max peak reverse current	$I_{RM}$	.5mA	$V_{RRM}, T_J = 25^\circ C$
Max peak reverse current	$I_{RM}$	20mA	$V_{RRM}, T_J = 100^\circ C^*$
Typical junction capacitance	$C_J$	250pF	$V_R = 5.0V, T_J = 25^\circ C$

\*Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%

## Thermal and Mechanical Characteristics

Storage temperature range	$T_{STG}$	$-55^\circ C$ to $150^\circ C$
Operating junction temp range	$T_J$	$-55^\circ C$ to $125^\circ C$
Maximum thermal resistance	$R_{\theta JC}$	$10^\circ C/W$

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# SK32A — SK310A

Figure 1  
Typical Forward Characteristics

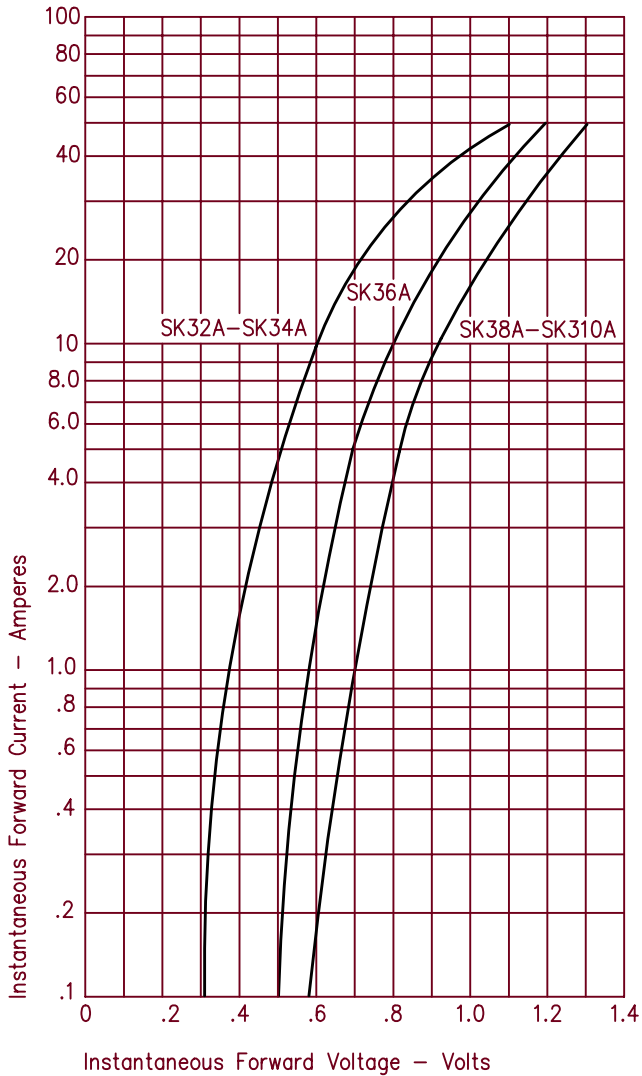


Figure 3  
Typical Junction Capacitance

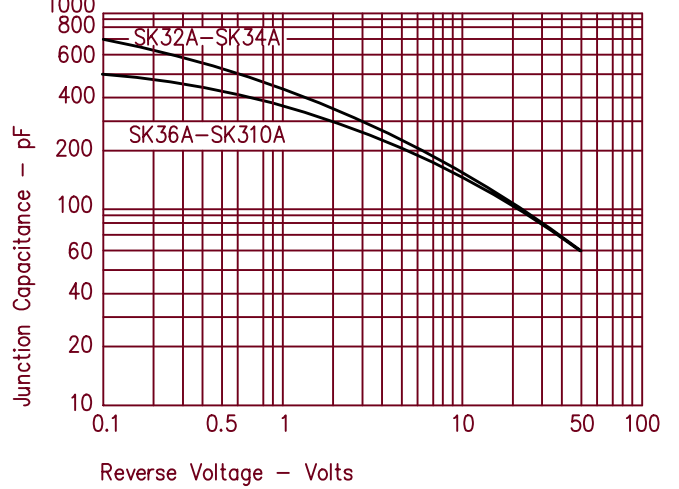


Figure 2  
Typical Reverse Characteristics @ 100°C

