



# SK32 - SK36

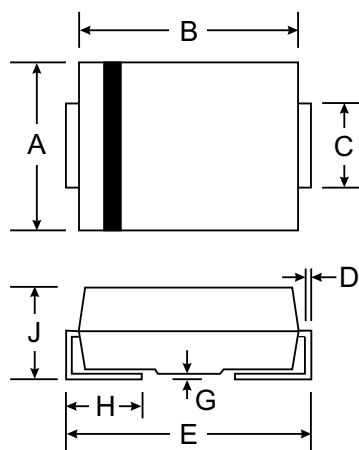
## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### Features

- For Surface Mounted Applications
- High Temperature Metallurgically Bonded Contacts
- Capable of Meeting Environmental Standards of MIL-STD-19500
- Plastic Material - UL Flammability Classification 94V-0
- High Reliability
- High Current Capability and Low VF
- Submersible Temperature of 265°C for 10 Seconds in Solder Bath

### Mechanical Data

- Case: SMC, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Approx. Weight: 0.21 grams
- Mounting Position: Any



SMC		
Dim	Min	Max
A	5.40	6.22
B	6.10	7.11
C	2.92	3.18
D	0.15	0.40
E	7.55	8.13
G	0.10	0.21
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz resistive or inductive load.

Characteristic	Symbol	SK32	SK33	SK34	SK35	SK36	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Rectified Current (See Fig. 1)	I <sub>(AV)</sub>	3.0					A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	100					A
Maximum Instantaneous Forward Voltage at 3.0A (See Note 1)	V <sub>F</sub>	0.50			0.75		V
Maximum DC Reverse Current at Rated DC Blocking Voltage (See Nore 1) @ T <sub>A</sub> = 25°C @ T <sub>A</sub> = 100°C	I <sub>R</sub>	0.5 20					mA
Maximum Thermal Resistance (See Note 2)	R <sub>ΘJL</sub> R <sub>ΘJA</sub>	10 60					°C/W
Typical Junction Capacitance (See Note 3)	C <sub>J</sub>	300					pF
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150					°C

- Notes:
1. Pulse Test Pulse Width 300  $\mu$ S, Duty Cycle 2%
  2. 8.0mm<sup>2</sup> (0.13mm thick) land pads
  3. Measured at 1.0MHz and applied reverse voltage of 4.0V.

