

SK32 THRU S310

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
VOLTAGE - 20 TO 100 Volts CURRENT - 3.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier majority carrier conduction
- Low power loss, high efficiency
- High current capability, low V_f
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AB molded plastic

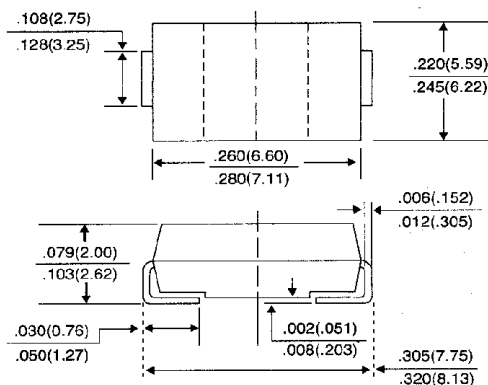
Terminals: Solder plated solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode

Standard Packaging: 16mm tape (EIA-481)

Weight: 0.007 ounces 0.21 gram

SMC/DO-214AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Resistive or inductive load.

	SYMBOLS	SK32	SK33	SK34	SK35	SK36	SK38	SK39	S310	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	64	71	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at $T_L = 75^\circ\text{C}$	$I_{(AV)}$	3.0								Amps
Peak forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100								Amps
Maximum Instantaneous Forward Voltage at 3.0A (NOTE 1)	V_f	0.50		0.75		0.85			Volts	
Maximum DC Reverse Current (NOTE 1) $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$	I_R	0.5 20.0								mA
Maximum Thermal Resistance (NOTE 2)	$R_{\theta JL}$ $R_{\theta JA}$	17 55								$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	-50 to +125								$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-50 to +150								$^\circ\text{C}$

NOTES:

1. Pulse Test with $PW = 300\mu\text{sec}$, 2% Duty Cycle.
2. Mounted on P.C. Board with 14 mm² (.013mm thick) copper pad areas.

RATING AND CHARACTERISTIC CURVES
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