

# SB34-A

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 40V

CURRENT: 3.0A

### FEATURE

Plastic package has Underwriters Laboratory Flammability Classification 94V-0

For surface mounted applications

Low profile package

Built-in strain relief

Low power loss, high efficiency

High current capability, low forward voltage drop

High surge capability

For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

Guard ring for over voltage protection

High temperature soldering guaranteed:

250°C /10 seconds at terminals

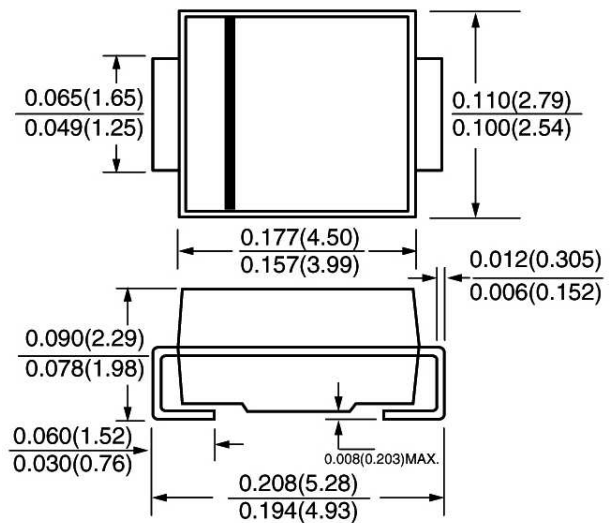
### MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body

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

Polarity: Color band denotes cathode end

### SMA/DO--214AC



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,  
for capacitive load, derate current by 20%)

	SYMBOL	SB34-A	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	40	V
Maximum RMS Voltage	V <sub>rms</sub>	28	V
Maximum DC blocking Voltage	V <sub>dc</sub>	40	V
Maximum Average Forward Rectified Current	I <sub>f(av)</sub>	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	100.0	A
Maximum Forward Voltage at rated Forward current (Note 1)	V <sub>f</sub>	0.5	V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =100°C	I <sub>r</sub>	0.5 20.0	mA
Typical Thermal Resistance (Note 2)	R <sub>th(ja)</sub>	55.0	°C /W
Storage and Operating Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55 to +150	°C

#### NOTE:

1. Pulse test: 300µs pulse width, 1% duty cycle
2. P.C.B. mounted with 0.2 x 0.2inches (5.0 x 5.0mm) copper pad areas

# RATINGS AND CHARACTERISTIC CURVES SB34-A

