SB345-A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 45V 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:

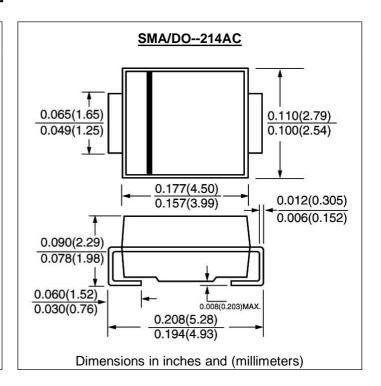
250°C /10 seconds at terminals

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



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	SB345-A	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	45	V
Maximum RMS Voltage	Vrms	31.5	V
Maximum DC blocking Voltage	Vdc	45	V
Maximum Average Forward Rectified Current	If(av)	3.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	100.0	А
Maximum Forward Voltage atrated Forward current (Note 1)	Vf	0.5	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	lr	0.5 10.0	mA
Typical Thermal Resistance (Note 2)	Rth(ja)	55.0	°C /W
Storage and Operating Temperature Range	Tj, Tstg	-55 to +150	°C

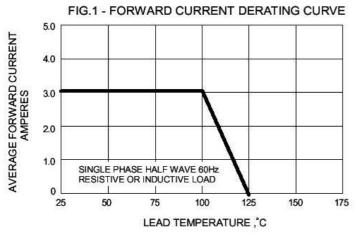
NOTE:

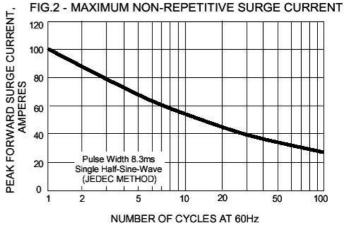
1. Pulse test: 300µs pulse width, 1% duty cycle

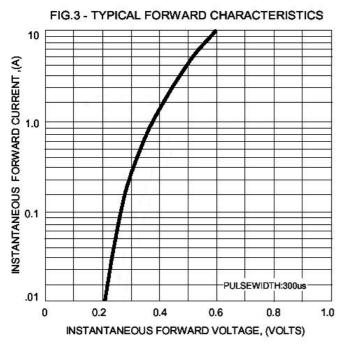
2. P.C.B. mounted with 0.2 x 0.2inches (5.0 x 5.0mm) copper pad areas

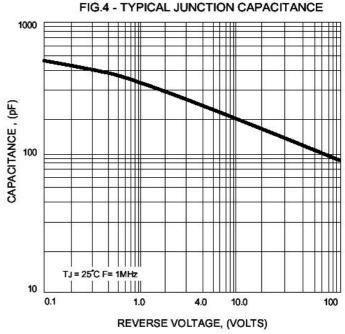
Rev.A1 www.gulfsemi.com

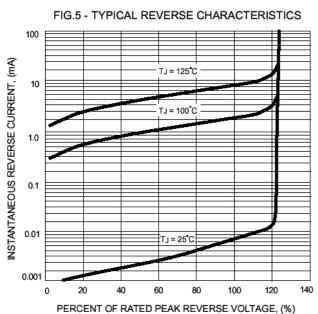
RATINGS AND CHARACTERISTIC CURVES SB345-A











Rev.A1 www.gulfsemi.com