SB43-B THRU SB44-B

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE:30 TO 40V

MECHANICAL DATA

250^oC /10 seconds at terminals **Polarity:** Color band denotes cathode end **Weight:** 0.003 ounce, 0.093gram

Case: JEDEC DO-214AB molded plastic body

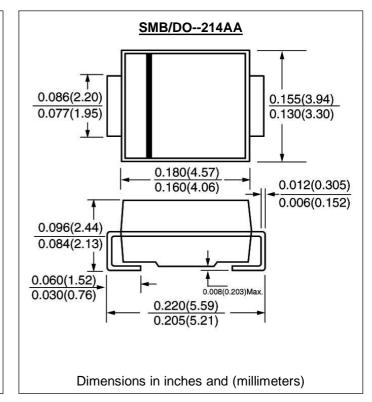
High temperature soldering guaranteed:

CURRENT: 4.0A

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 Guarding for over voltage protection

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



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	SB43-B	SB44-B	units
Device marking code		SB43	SB44	
Maximum Recurrent Peak Reverse Voltage	Vrrm	30	40	V
Maximum RMS Voltage	Vrms	21	28	V
Maximum DC blocking Voltage	Vdc	30	40	V
Maximum Average Forward Rectified Current 3/8'lead length at T_L (See Fig.1)	lf(av)	4.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	100.0		A
Maximum Forward Voltage at rated Forward current at 4.0A TJ = 25°C (Note 1)	Vf	0.50		V
Maximum DC Reverse CurrentTJ =25°Cat rated DC blocking voltageTJ =125°C	lr	0.6	0.5	mA
		45	40	
Typical Thermal Resistance (Note 2)	R(ja)	70.0		°C /W
	R(jl)	23.0		
Storage and Operating Temperature Range	Tstg	-50 to +150		°C

NOTES:

(1) Pulse test: $300\mu s$ pulse width, 1% duty cycle

(2) Aluminum substrate mounted

RATINGS AND CHARACTERISTIC CURVES SB43-B THRU SB44-B

