SB22 THRU SB210

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20 to 100V

CURRENT: 2.0A

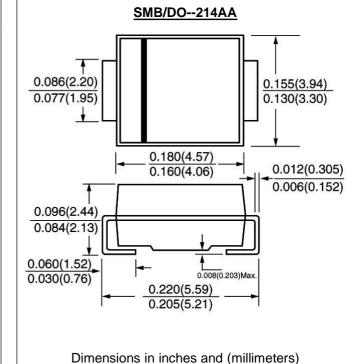


Plastic package has Underwriters Laboratory Flammability Classification 94V-0 For surface mounted applications Low profile package Built-in strain relief Low power loss, high efficiency High current capability, low forward voltage drop High surge capability For use in low voltage high frequency inverters, 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 SMB/DO-214AA molded plastic body Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Weight: 0.003 ounce, 0.093 gram





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	SB2 2	SB2 3	SB2 4	SB2 5	SB2 6	SB2 9	SB2 10	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	90	100	V
Maximum RMS Voltage	Vrms	14	21	28	35	42	63	70	V
Maximum DC blocking Voltage	Vdc	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Curre 3/8"lead length	nt If(av)	2.0							A
Peak Forward Surge Current 8.3ms single half sin wave superimposed on rated load	e- Ifsm	50.0						A	
Maximum Forward Voltage at rated Forward current (Note	1) Vf		0.50		0.	70	0.	79	V
Maximum DC Reverse CurrentTa =25°Cat rated DC blocking voltageTa =100°C	C Ir	0.5							mA
	c "		20.0		10.0				
Typical Thermal Resistance (Note 2	2) Rth(ja) Rth(jc)	88.0 50.0						°C/V	
Operating junction Temperature range	Тј	-55 to +125 -55 to +150					°C		
Storage Temperature range	Tstg	-55 to +150							°C

(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



