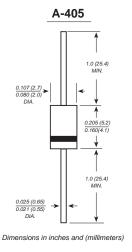


SB120S THRU SB1B0S

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 Ampere



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC A-401 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.23 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

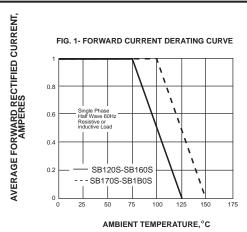
MDD Catalog Number	SYMBOLS	SB 120S	SB 130S	SB 140S	SB 150S	SB 160S	SB 170S	SB 180S	SB 190S	SB 1B0S	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	VRMS	14	21	28	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length(see fig.1)	l(AV)	1.0								Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	İfsm	40.0								Amps	
Maximum instantaneous forward voltage at 1.0A	VF	0.55 0.70 0.85					Volts				
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR		0.5						mA		
Typical junction capacitance (NOTE 1)	Сл		110		80						pF
Typical thermal resistance (NOTE 2)	RθJA		50.0								°C/W
Operating junction temperature range	TJ,		-65 to +125 -65 to +150					°C			
Storage temperature range	Тѕтс		-65 to +150								°C

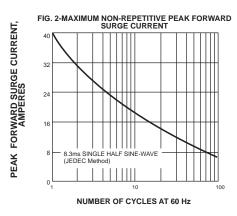
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

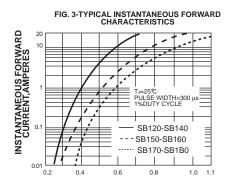
2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

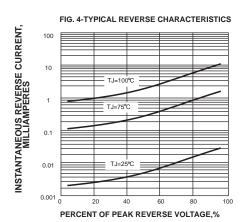


RATINGS AND CHARACTERISTIC CURVES SB120S THRU SB1B0S

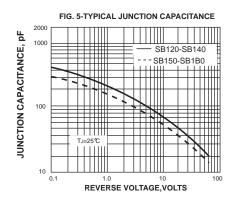


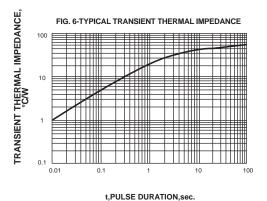












The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

