SB1045DAT

SCHOTTKY BARRIER RECTIFIER

Forward Current-10A

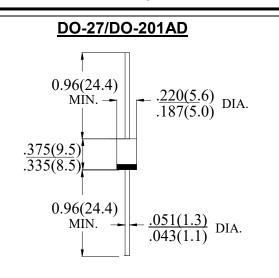
Reverse Voltage-45V

FEATURE

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed 260°C /10sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

- Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity: color band denotes cathode
- Mounting position: any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at TA=25°C unless otherwisespecified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Parameter		Symbol	SB1045DAT	Unit
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	45	V
Maximum RMS Voltage		VRMS	31.5	V
Maximum DC blocking Voltage		VDC	45	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T∟=90°C		I _{F(AV)}	10.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	150.0	A
Maximum Instantaneous Forward Voltage at 2.0A DC	T _A =25°C		0.33	v
	T _A =100°C	N .	0.27	
Maximum Instantaneous Forward Voltage at 10.0A DC	T _A =25°C	VF	0.45	
	T _A =100°C		0.42	
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25°C	1_	0.2	mA
	T _A =100°C	IR	10.0	
Typical Junction Capacitance(Note1)		CJ	600	pF
Typical Thermal Resistance(Note2)		Reja	40	°C/W
Storage Temperature		Т _{ѕтс}	-55 to +150	°C
Operating Junction Temperature		TJ	-55 to +150	°C

2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C. Board Mounted

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RATING AND CHARACTERISTIC CURVES

