SB1045L

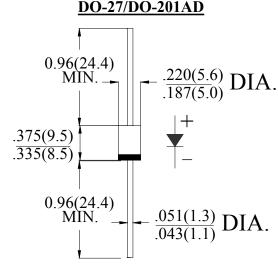
10.0AMPS. SCHOTTKY BARRIER RECTIFIERS

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 (free halogen)
- . Polarity: color band denotes cathode
- . Mounting position: any



Dimensions in inches and (millimeters)

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, derate current by 20%

Type Number		SYM BOL	SB1045L	units
Maximum Recurrent Peak Reverse Voltage		$V_{ m RRM}$	45	V
Maximum RMS Voltage		$V_{ m RMS}$	31.5	V
Maximum DC blocking Voltage		$V_{ m DC}$	45	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T_L =90°C		I _{F(AV)}	10.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		$I_{ m FSM}$	150.0	A
Maximum Forward Voltage	@IF=2A @IF=10A	$V_{ m F}$	0.33 0.45	V
Maximum DC Reverse Current at rated DC blocking voltage	@Tj=25°C @Tj=100°C	$I_{ m R}$	0.2 20.0	mA
Typical Junction Capacitance(Note1)		$C_{ m J}$	600	pF
Typical Thermal Resistance(Note2)		$R_{(JA)}$	40	°C/W
Storage Temperature		TSTG	-55 to +150	°C
Operating Junction Temperature		<i>T</i> J	-55 to +150	°C

Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient and Lead at 0.375"(9.5mm) lead length, vertical P.C. Board Mounted

RATING AND CHARACTERISTIC CURVES (SB1045L)



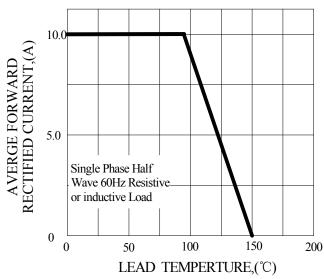


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

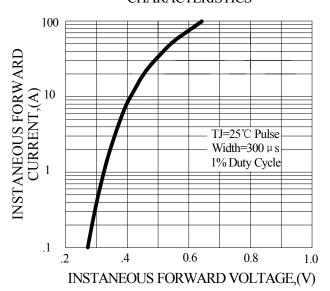


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

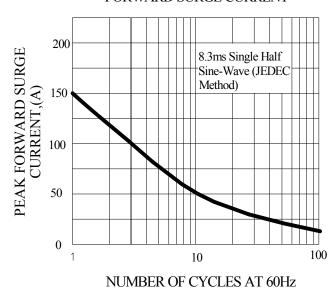


FIG.4-TYPICAL REVERSE CHARACTERISTICS

