

**SB5150L**

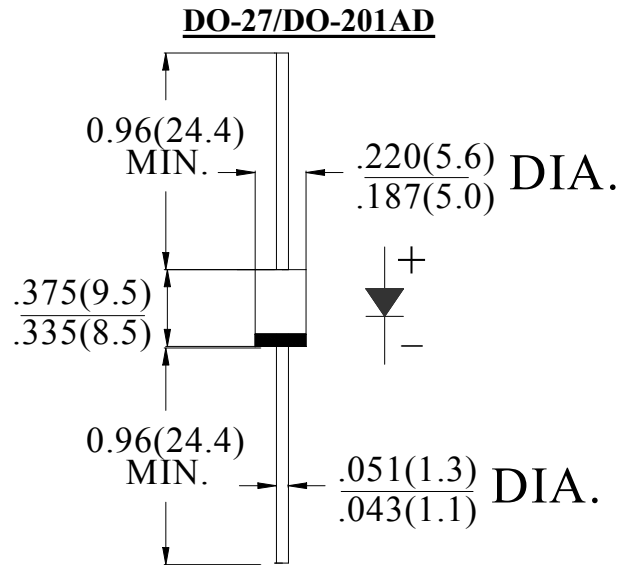
**5.0AMPS. SCHOTTKY BARRIER RECTIFIERS**

**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
- . 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	SB5150L	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	150	V
Maximum RMS Voltage	$V_{RMS}$	105	V
Maximum DC blocking Voltage	$V_{DC}$	150	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at $T_L = 90^\circ C$	$I_{F(AV)}$	5.0	A
Peak Forward Surge Current 8.3ms single half Sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	120.0	A
Maximum Forward Voltage at 5.0A DC	$V_F$	0.78	V
Maximum DC Reverse Current @ $T_A = 25^\circ C$ at rated DC blocking voltage @ $T_A = 100^\circ C$	$I_R$	0.1 5.0	mA
Typical Junction Capacitance (Note1)	$C_J$	112	pF
Typical Thermal Resistance (Note2)	$R_{(JA)}$	50	$^\circ C/W$
Storage Temperature	$T_{STG}$	-55 to +175	$^\circ C$
Operating Junction Temperature	$T_J$	-55 to +175	$^\circ C$

**Note:**

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

**RATING AND CHARACTERISTIC CURVES (SB5150L)**

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

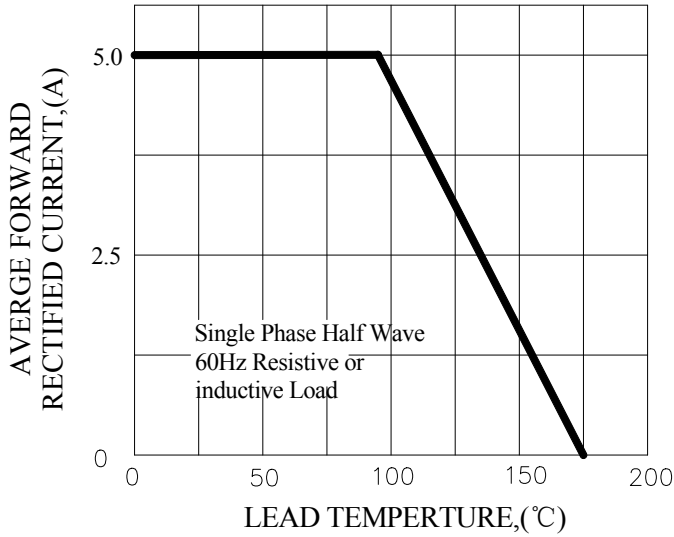


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

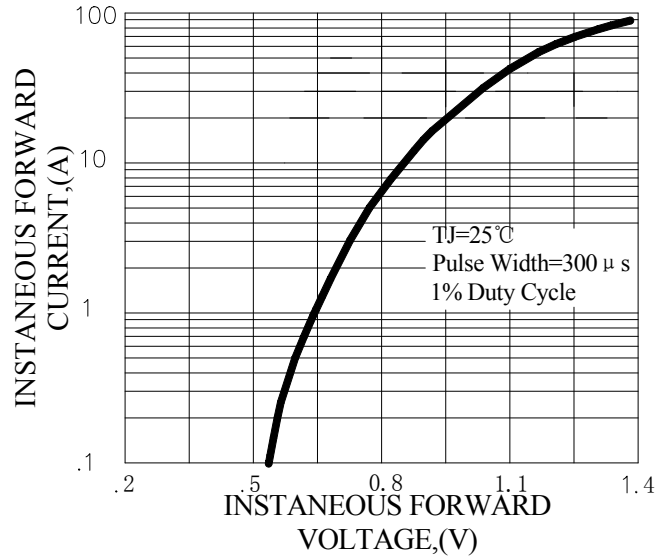


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

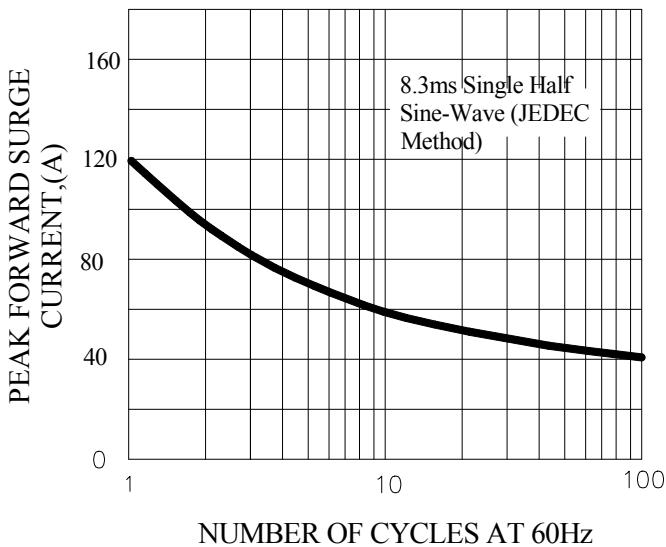
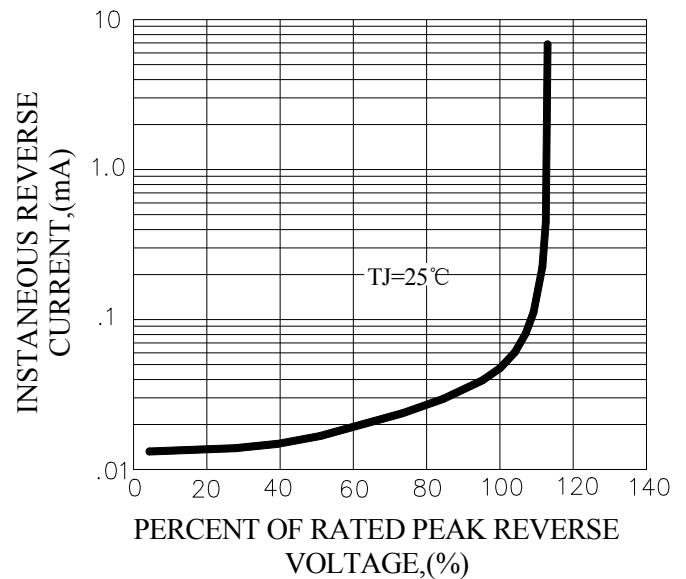


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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