SB5150L

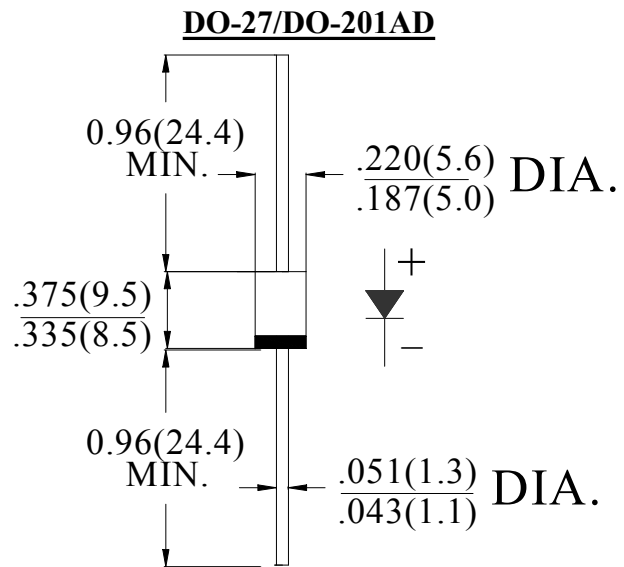## 5.0AMPS. SCHOTTKY BARRIER RECTIFIERS

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

DO-27/DO-201AD

0.96(24.4) MIN.

$\frac{.220(5.6)}{.187(5.0)}$ DIA.

$\frac{.375(9.5)}{.335(8.5)}$

0.96(24.4) MIN.

$\frac{.051(1.3)}{.043(1.1)}$ DIA.

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Type Number	SYMBOL	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°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℃ at rated DC blocking voltage @T_A=100℃	I_R	0.1 5.0	mA
Typical Junction Capacitance (Note1)	C_J	112	pF
Typical Thermal Resistance (Note2)	$R_{(JA)}$	50	℃/W
Storage Temperature	T_{STG}	-55 to +175	°C
Operating Junction Temperature	T_J	-55 to +175	°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
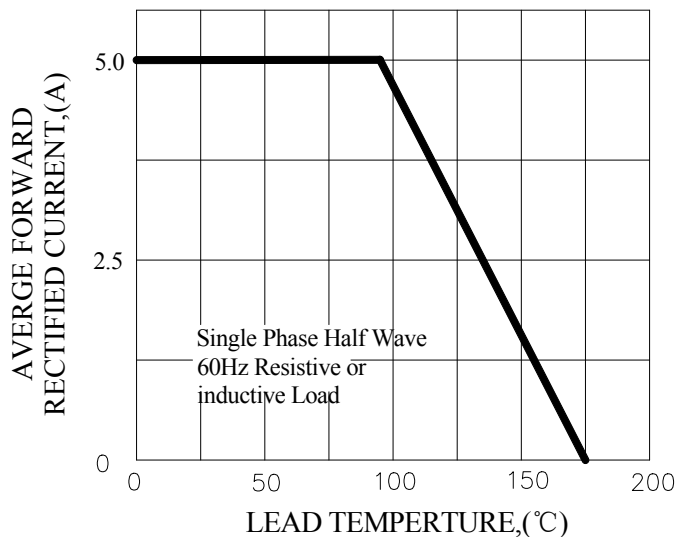DERATING CURVE

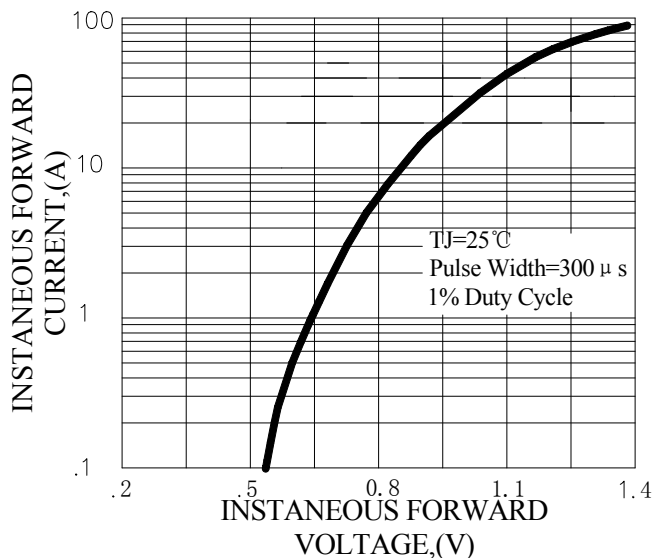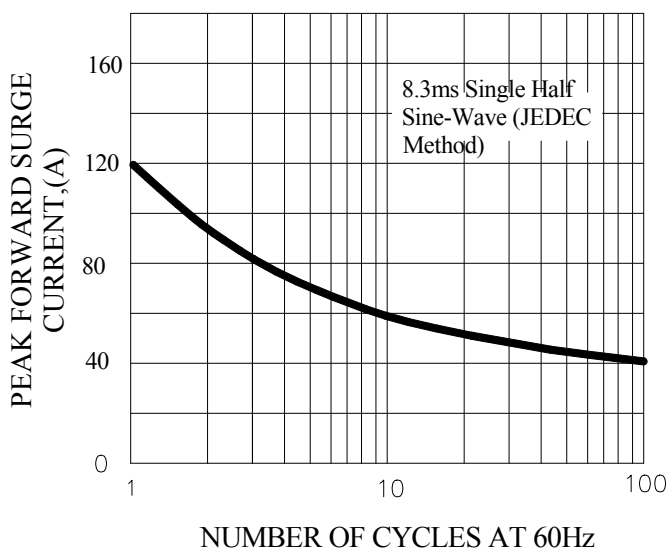FIG.2-TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

FIG.3-MAXIMUN NON-REPETITIVE
FORWARD SURGE CURRENT

FIG.4-TYPICAL REVERSE
CHARACTERISTICS