

**SB3T100**

**3.0AMPS. SCHOTTKY BARRIER RECTIFIERS**

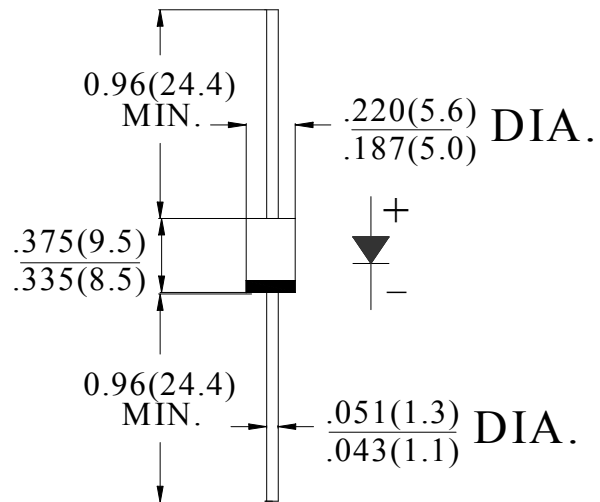
**FEATURE**

- . For surface mounted application
- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge current capability
- . High temperature soldering guaranteed:  
260°C/10 seconds at terminals.

**MECHANICAL DATA**

- . Terminal: Solder plated
- . Case: Molded with UL-94 Class V-0 recognized  
Flame Retardant Epoxy (free halogen)
- . Polarity: color band denotes cathode
- . Mounting position: any

**DO-27/DO-201AD**



Dimensions in inches and (millimeters)

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

**MAXIMUM RATINGS** ( $T_C=25^\circ\text{C}$  unless otherwise noted)

Parameter	SYMBOL	SB3T100	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	V
Maximum RMS Voltage	$V_{RMS}$	70	V
Maximum DC blocking Voltage	$V_{DC}$	100	V
Average Forward Rectified Current at $T_L \leq 100^\circ\text{C}$	$I_{F(AV)}$	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	80	A
Typical Junction Capacitance (Note1)	$C_J$	340	pF
Storage Temperature	$T_{STG}$	-55 to +150	$^\circ\text{C}$
Operating Junction Temperature	$T_J$	-55 to +150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS** ( $T_C=25^\circ\text{C}$  unless otherwise noted)

Parameter	SYMBOL	Min	Typ	Max	units
Instantaneous Forward voltage at 3A	$V_F$	-----	0.56	0.6	V
		@ $T_J=25^\circ\text{C}$			
		@ $T_J=125^\circ\text{C}$	0.54	-----	
reverse current at rated DC blocking voltage	$I_R$	----	----	0.2	mA
		@ $T_J=25^\circ\text{C}$			
		@ $T_J=125^\circ\text{C}$		20.0	

**THERMAL CHARACTERISTICS** ( $T_C=25^\circ\text{C}$  unless otherwise noted)

Thermal Characteristic	SYMBOL	SB3T100	units
Typical Thermal Resistance (Note2)	$R_{(JA)}$	48	$^\circ\text{C}/\text{W}$
	$R_{(JC)}$	14	

**Note:**

1.  $T_J=25^\circ\text{C}$ ,  $V_R = 4V_{DC}@1\text{Mhz}$
2. Measured on P.C.Board with 15.0mm\*15.0mm\*1.6mm Copper Pad Areas

**RATING AND CHARACTERISTIC CURVES (SB3T100)**

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

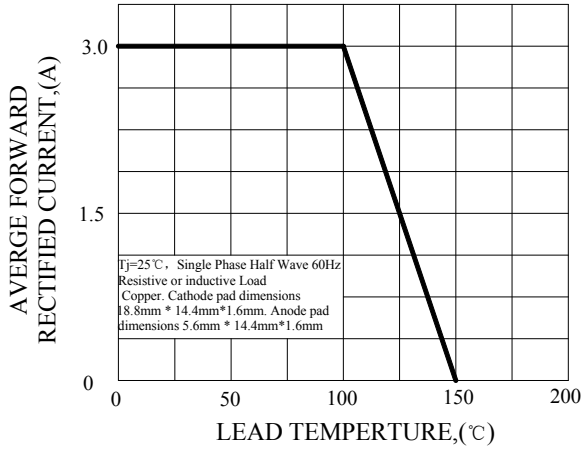


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

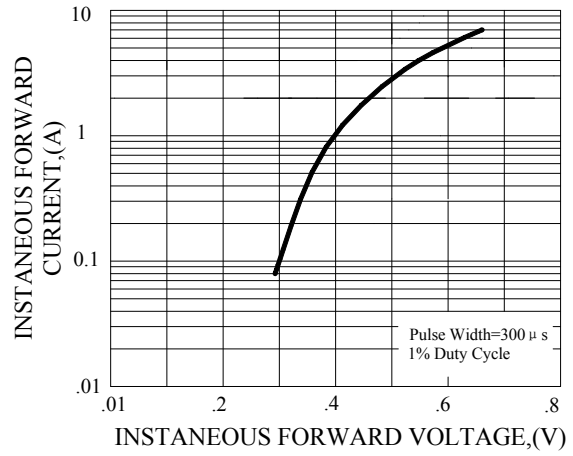


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

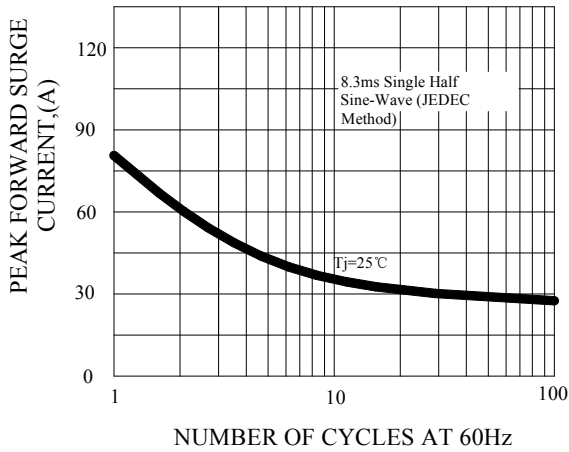


FIG.4-TYPICAL REVERSE CHARACTERISTICS

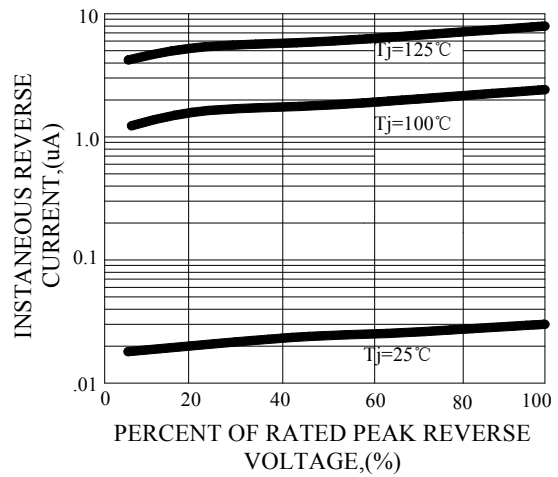
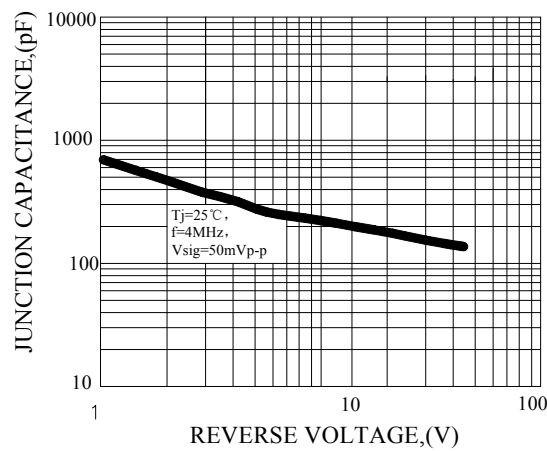


FIG.5-TYPICAL JUNCTION CAPACITANCE



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