SB5T80

5.0AMPS. SCHOTTKY BARRIER RECTIFIERS

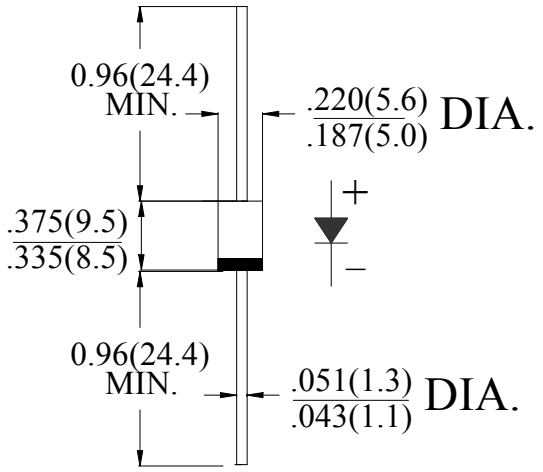
FEATURE

. 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℃/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)

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	SB5T80	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	80	V
Maximum RMS Voltage	V_{RMS}	56	V
Maximum DC blocking Voltage	V_{DC}	80	V
Maximum Average Forward Rectified Current 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}	100	A
Maximum Forward Voltage at 5.0A DC	$V_{F(MAX)}$	0.58	V
Maximum DC Reverse Current @T_A=25℃	I_R	0.1	mA
at rated DC blocking voltage @T_A=100℃		10.0	
Typical Junction Capacitance (Note1)	C_J	460	pF
Typical Thermal Resistance (Note2)	$R_{(JA)}$	65	℃/W
Storage Temperature	T_{STG}	-55 to +150	°C
Operating Junction Temperature	T_J	-55 to +150	°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Measured on P.C.Board with 0.2×0.2”(5.0×5.0mm)Copper Pad Areas.

RATING AND CHARACTERISTIC CURVES (SB5T80)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

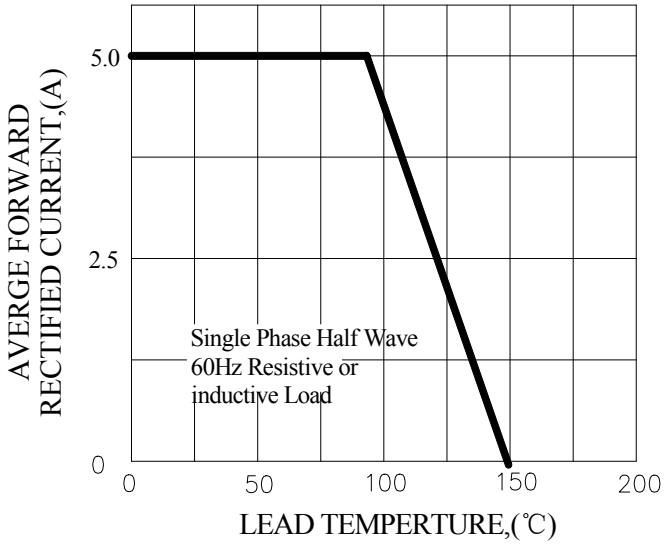


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

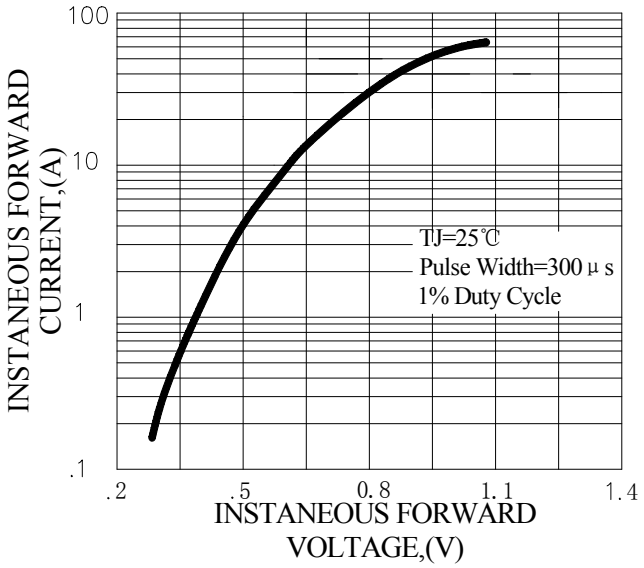


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

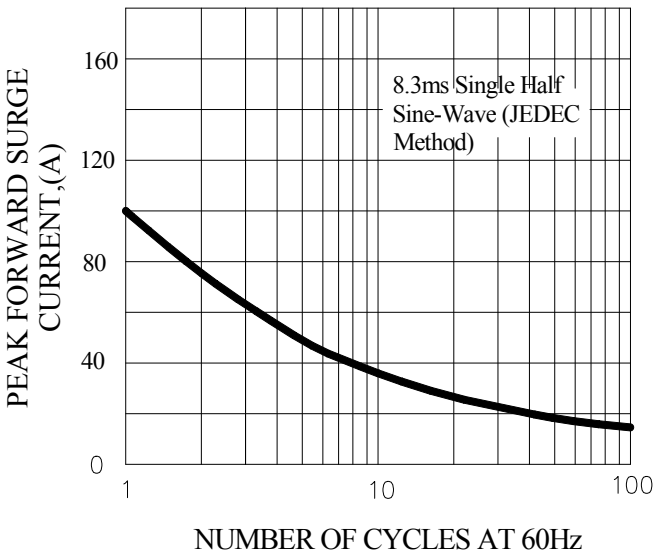


FIG.4-TYPICAL REVERSE CHARACTERISTICS