

**SCHOTTKY BARRIER RECTIFIERS**

**REVERSE VOLTAGE - 50 to 60 Volts**  
**FORWARD CURRENT - 5.0 Amperes**

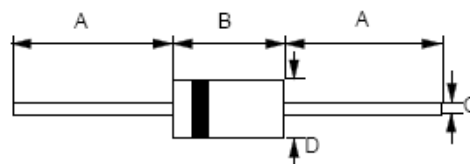
**FEATURES**

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

**MECHANICAL DATA**

- Case: JEDEC DO-201AD molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.04 ounces, 1.1 grams
- Mounting position: Any

**DO-201AD**



DO-201AD		
Dim.	Min.	Max.
A	25.4	-
B	7.30	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in millimeter		

**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%.

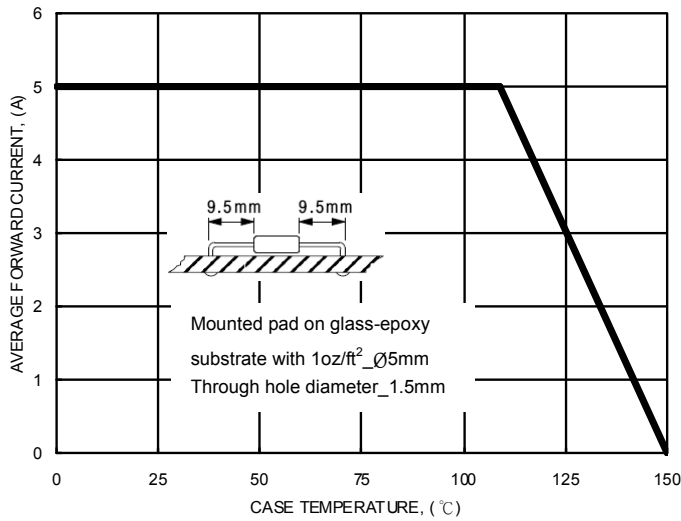
CHARACTERISTICS	SYMBOL	SB550	SB560	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	60	V
Maximum RMS Voltage	$V_{RMS}$	35	42	V
Maximum DC Blocking Voltage	VDC	50	60	A
Maximum Average Forward Rectified Current	$I_{AV}$	5.0		A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	150		A
Peak Repetitive Reverse Current $t_p=2\mu s$ , square F=1KHz @ $T_j=25^\circ C$	$I_{RRM}$	1.0		A
Maximum Forward Voltage at 5.0A DC	$V_F$	0.67		V
Maximum DC Reverse Current @ $T_j=25^\circ C$ at Rated DC Blocking Voltage @ $T_j=100^\circ C$	$I_R$	0.5 20		mA
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	10		°C/W
Typical Junction Capacitance (Note 2)	$C_j$	350		pF
Operating Junction Temperature Range	$T_j$	-55 to +150		°C
Storage Temperature Range	$T_{STG}$	-55 to +150		°C

Note : (1)Thermal Resistance Junction to Lead..

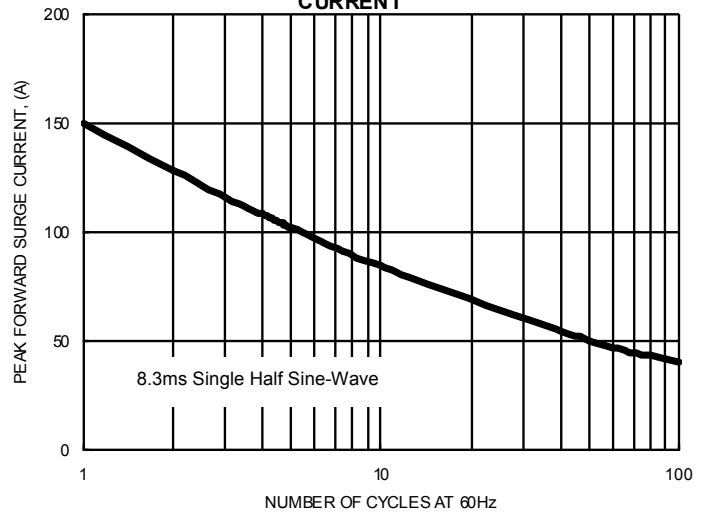
(2)Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

REV.1, Dec-2009, KDHF11

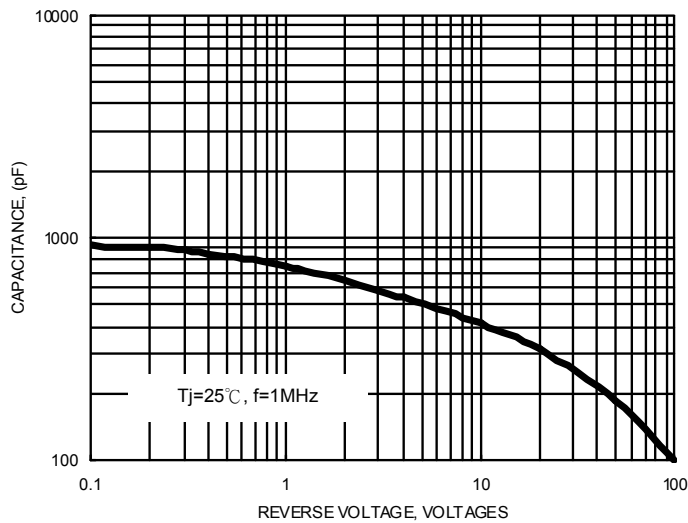
**FIG.1- FORWARD CURRENT DERATING CURVE**



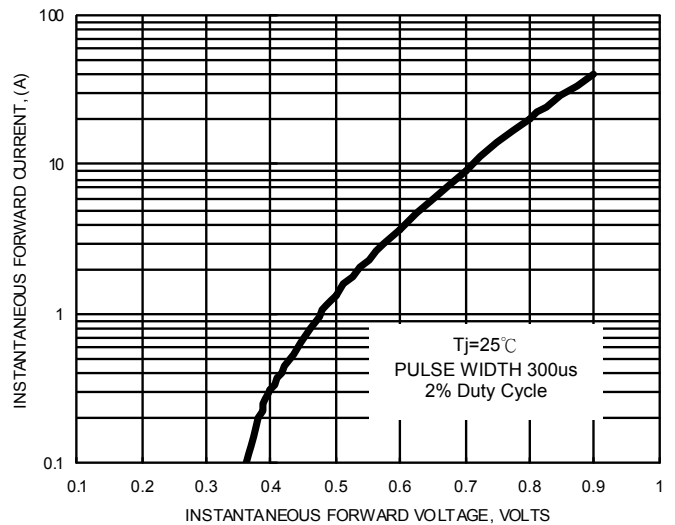
**FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT**



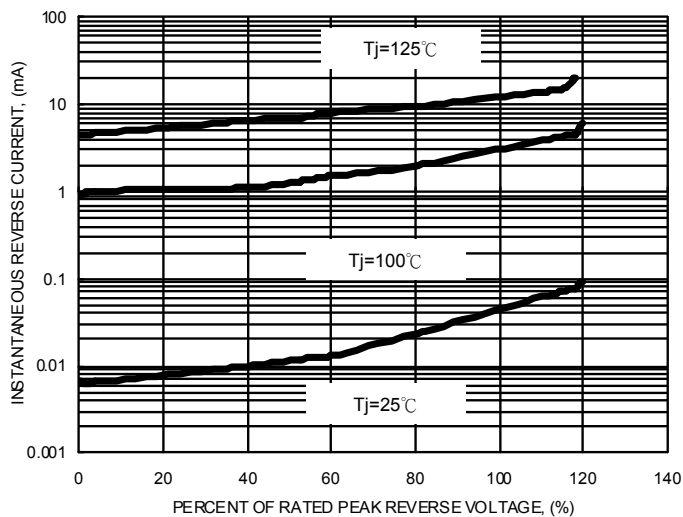
**FIG.3- TYPICAL JUNCTION CAPACITANCE**



**FIG.4- TYPICAL FORWARD CHARACTERISTICS**



**FIG.5- TYPICAL REVERSE CHARACTERISTICS**



**FIG.6- DC REVERSE VOLTAGE DERATING CURVE**

