

**SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - **20 to 60** Volts  
FORWARD CURRENT - **2.0** Amperes

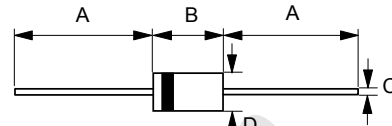
**FEATURES**

- 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 applications

**MECHANICAL DATA**

- Case : JEDEC DO-15 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.015 ounces, 0.4 grams
- Mounting position : Any

**DO-15**



DO-15		
Dim.	Min.	Max.
A	25.4	-
B	5.80	7.60
C	0.71 $\varnothing$	0.86 $\varnothing$
D	2.60 $\varnothing$	3.60 $\varnothing$
All Dimensions in millimeter		

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	SB220	SB230	SB240	SB250	SB260	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	V
Maximum Average Forward Rectified Current @TA=75°C	I(AV)	2.0					A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	IFSM	60					A
Maximum forward Voltage at 2.0A DC	VF	0.55			0.7		V
Maximum forward Voltage at 1.5A DC		-----			0.65		
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ=25°C @TJ=100°C	IR	0.5			15		mA
Typical Thermal Resistance (Note 1)	RθJA	20			°C/W		
Typical Junction Capacitance (Note 2)	CJ	150			pF		
Operating Temperature Range	TJ	-55 to +125			-55 to + 150		°C
Storage Temperature Range	TSTG	-55 to +150					°C

NOTES : 1.Thermal Resistance Junction to Ambient.  
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

REV. 5, Oct-2010, KDHD01

FIG.1 - FORWARD CURRENT DERATING CURVE

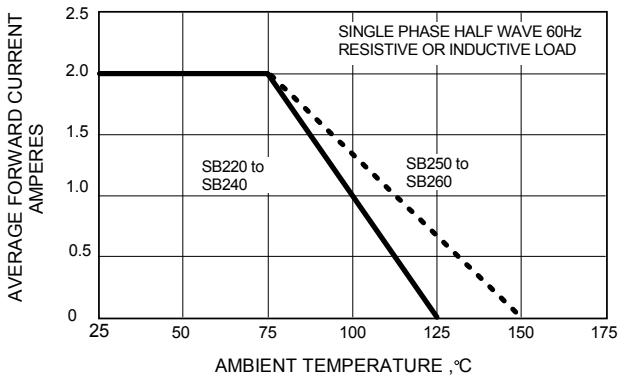


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

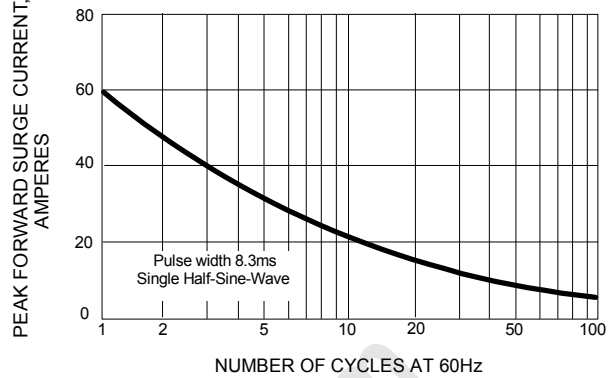


FIG.3 - TYPICAL JUNCTION CAPACITANCE

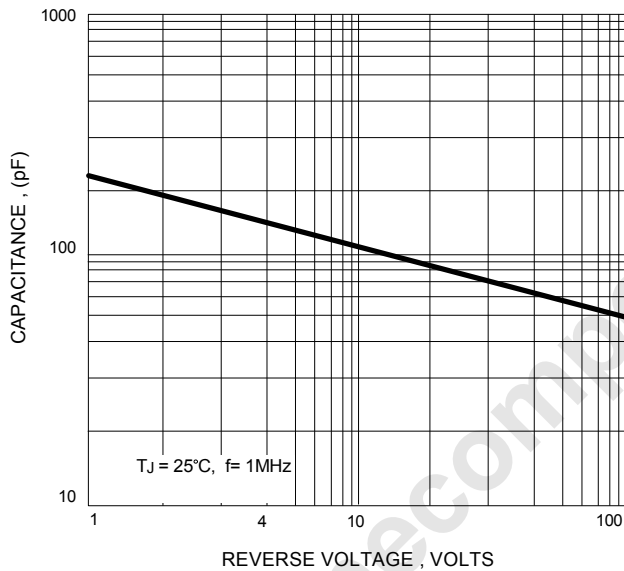


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

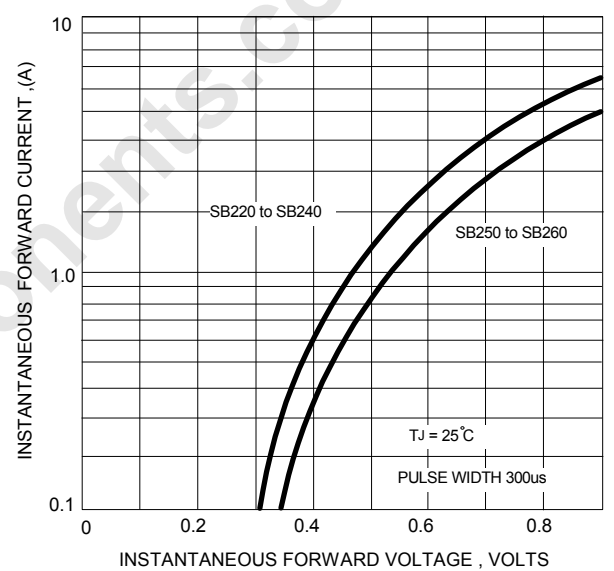
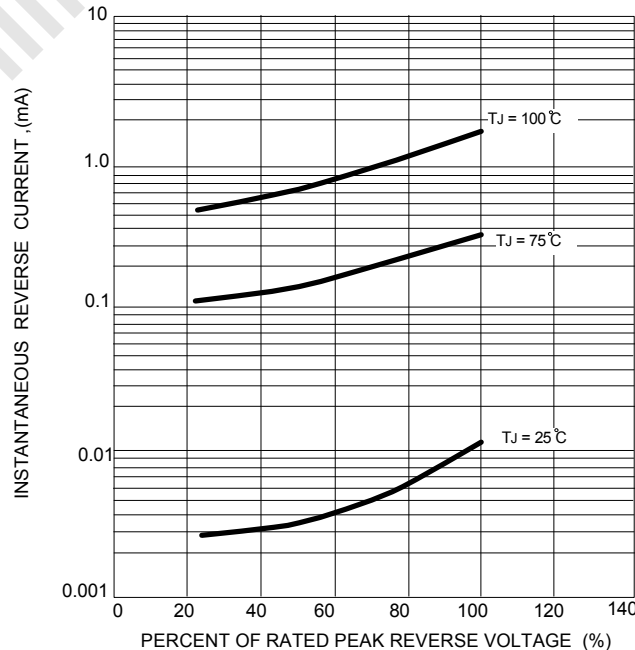


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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