

SCHOTTKY BARRIER RECTIFIERS

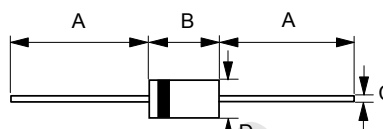
REVERSE VOLTAGE - **70 to 100** Volts
 FORWARD CURRENT - **2.0** Amperes

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	SB270	SB280	SB290	SB2100	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	70	80	90	100	V
Maximum RMS Voltage	V _{RMS}	49	56	63	70	V
Maximum DC Blocking Voltage	V _{DC}	70	80	90	100	V
Maximum Average Forward Rectified Current @T _A =75°C	I _(AV)	2.0				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I _{FSM}	60				A
Maximum forward Voltage at 2.0A DC @T _J =25°C @T _J =100°C	V _F	0.79 0.69				V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C @T _J =100°C	I _R	0.5 10				mA
Typical Thermal Resistance (Note 1)	R _{θJC}	10				°C/W
Typical Thermal Resistance (Note 2)	R _{θJA}	20				°C/W
Typical Junction Capacitance (Note 3)	C _J	250				pF
Operating Temperature Range	T _J	-55 to +150				°C
Storage Temperature Range	T _{STG}	-55 to +150				°C

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

REV. 8, Oct-2010, KDHD02

FIG.1 - FORWARD CURRENT DERATING CURVE

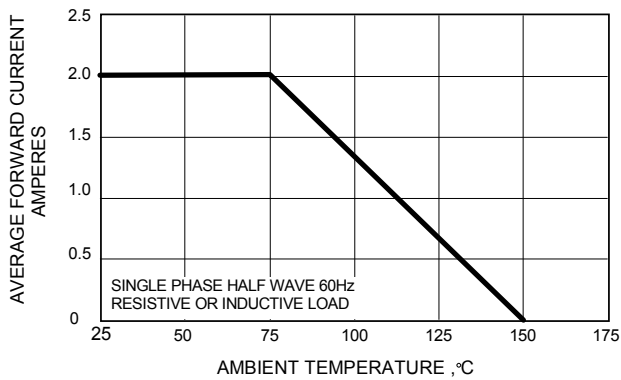


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

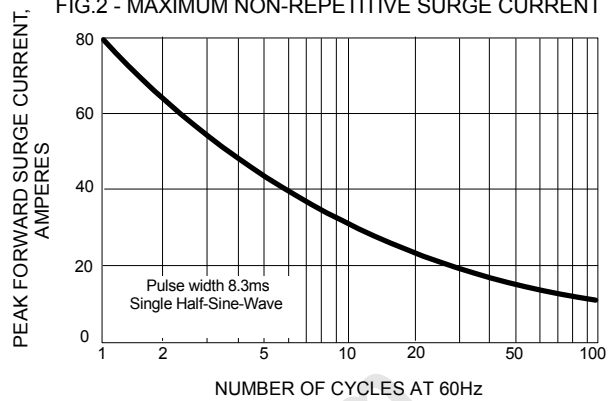


FIG.3 - TYPICAL JUNCTION CAPACITANCE

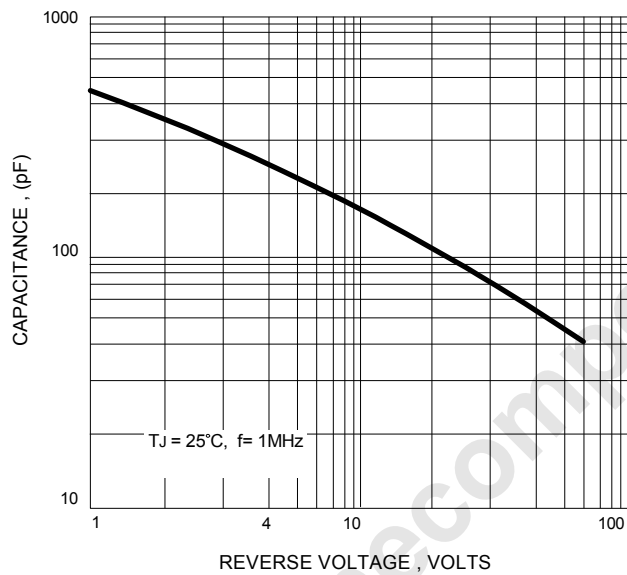


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

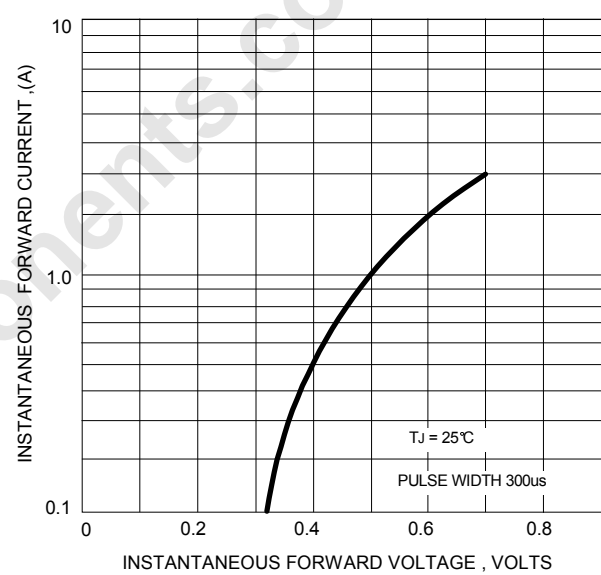
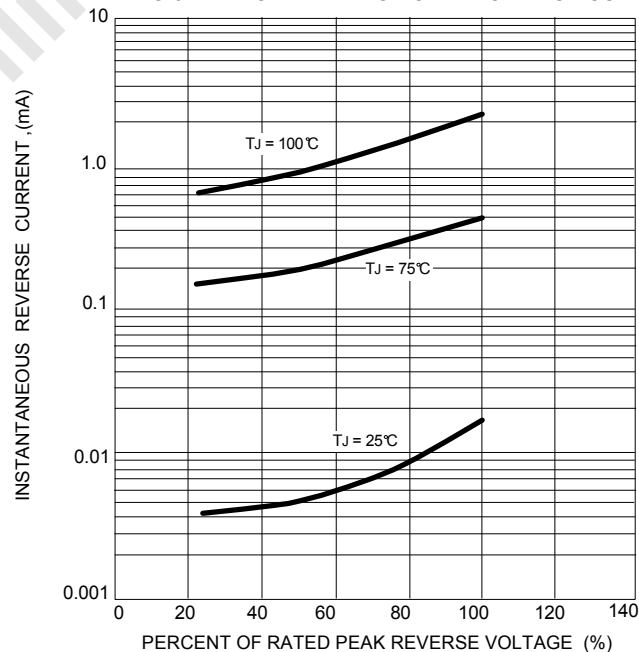


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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