

**SURFACE MOUNT  
SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - **150** Volts  
FORWARD CURRENT - **2.0** Amperes

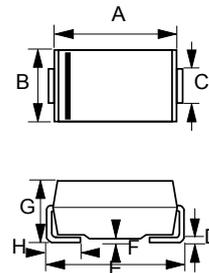
**FEATURES**

- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

**MECHANICAL DATA**

- Case : Molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.002 ounces, 0.064 grams

**SMA**



SMA		
DIM.	MIN.	MAX.
A	4.06	4.57
B	2.29	2.92
C	1.27	1.63
D	0.15	0.31
E	4.83	5.59
F	0.05	0.20
G	2.01	2.40
H	0.76	1.52
All Dimensions in millimeter		

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	B2150A	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	150	V
Maximum RMS Voltage	VRMS	105	V
Maximum DC Blocking Voltage	VDC	150	V
Maximum Average Forward Rectified Current @T <sub>C</sub> =125°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 @T <sub>J</sub> =25°C @T <sub>J</sub> =125°C	V <sub>F</sub>	0.82 0.67	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =125°C	I <sub>R</sub>	1.5 1.5	uA mA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	90	pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>	30	°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +175	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +175	°C

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

REV. 2, Oct-2010, KSHA15

FIG.1 - FORWARD CURRENT DERATING CURVE

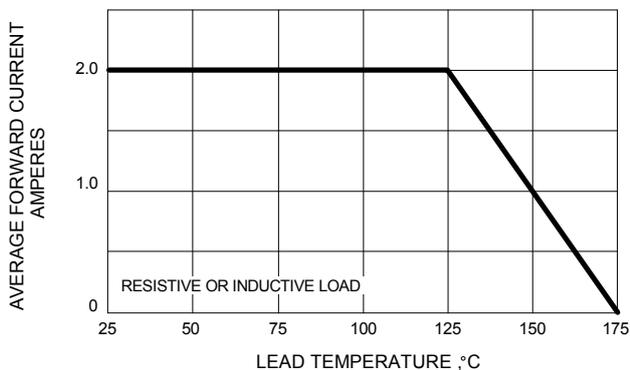


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

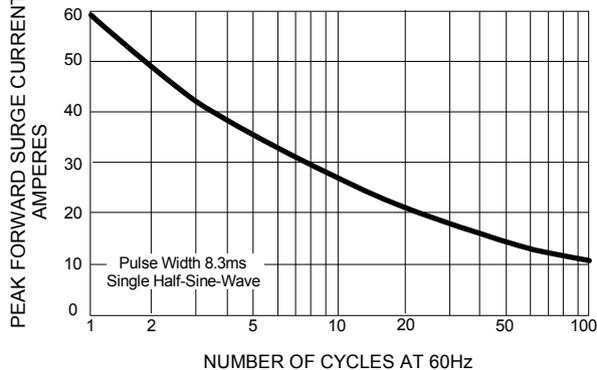


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

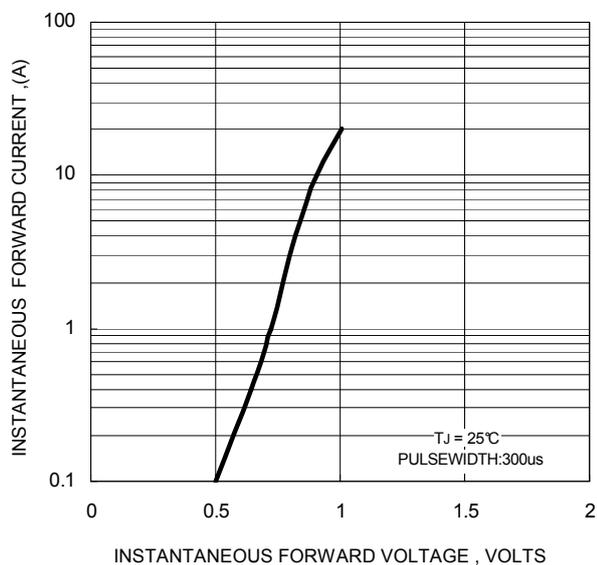


FIG.4 - TYPICAL JUNCTION CAPACITANCE

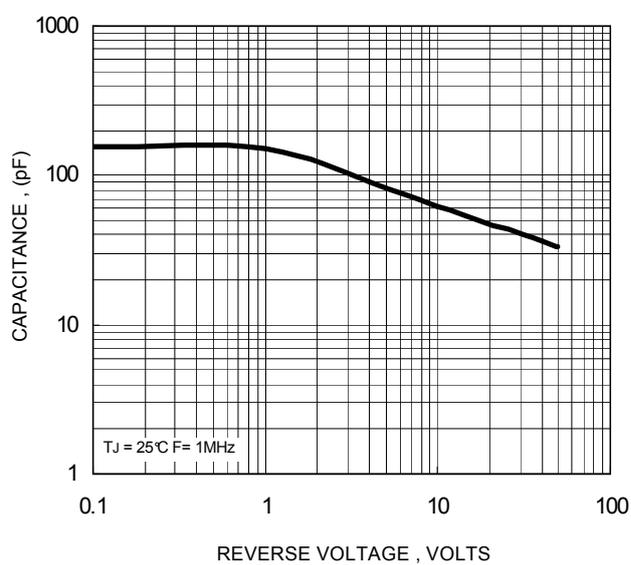
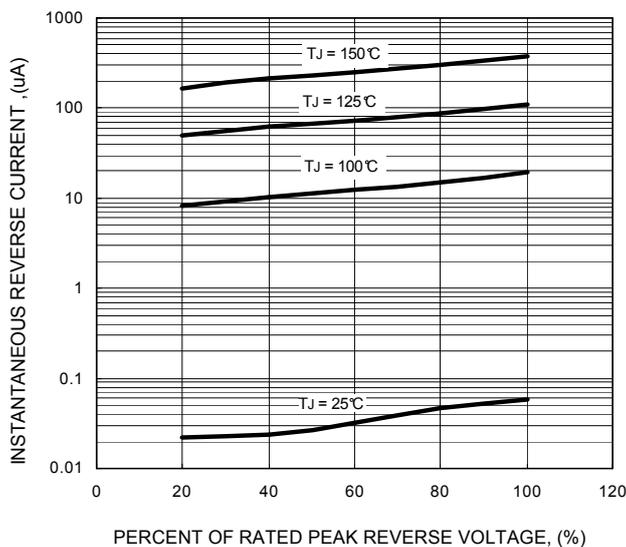


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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