

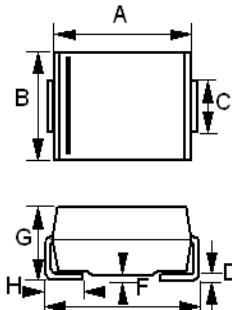
SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIERSREVERSE VOLTAGE – 50 to 60 Volts
FORWARD CURRENT – 2.0 Amperes

FEATURES

- For surface mounted application
- Metal-Semiconductor junction with guard ring
- 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 application

MECHANICAL DATA

- Case: Molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.003 ounces, 0.093 grams

SMB

SMB		
DIM.	MIN.	MAX.
A	4.06	4.57
B	3.30	3.94
C	1.96	2.21
D	0.15	0.31
E	5.21	5.59
F	0.05	0.20
G	2.01	2.50
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	B250	B260	UNIT	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	60	V	
Maximum RMS Voltage	V_{RMS}	35	42	V	
Maximum DC Blocking Voltage	V_{DC}	50	60	A	
Maximum Average Forward Rectified Current @ $T_{L}=130^{\circ}\text{C}$	I_{AV}	2.0			A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50			A
Maximum Forward Voltage at 2.0A DC	V_F	0.7			V
Maximum DC Reverse Current @ $T_{j}=25^{\circ}\text{C}$ at Rated DC Blocking Voltage @ $T_{j}=100^{\circ}\text{C}$	I_R	0.5 15			mA
Typical Junction Capacitance (Note 1)	C_j	100			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	15			°C/W
Operating Junction Temperature Range	T_j	-55 to +150			°C
Storage Temperature Range	T_{STG}	-55 to +150			°C

Note : (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...

(2) Thermal Resistance Junction to Lead

REV.2, Oct-2010, KSHB18

RATING AND CHARACTERISTIC CURVES
B250 thru B260

FIG.1- FORWARD CURRENT DERATING CURVE

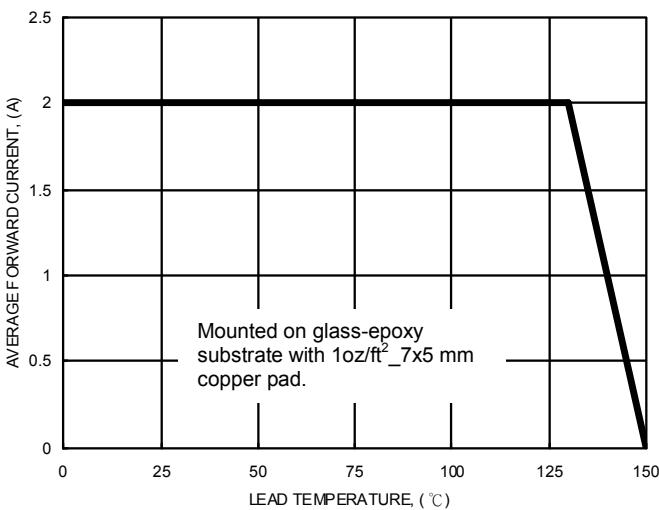


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

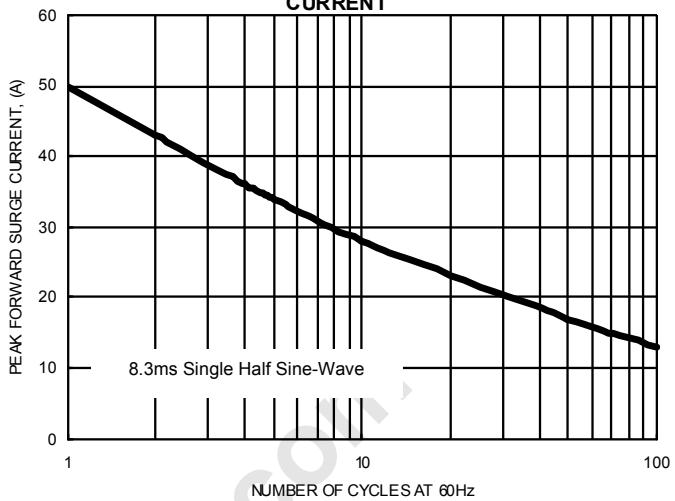


FIG.3- TYPICAL JUNCTION CAPACITANCE

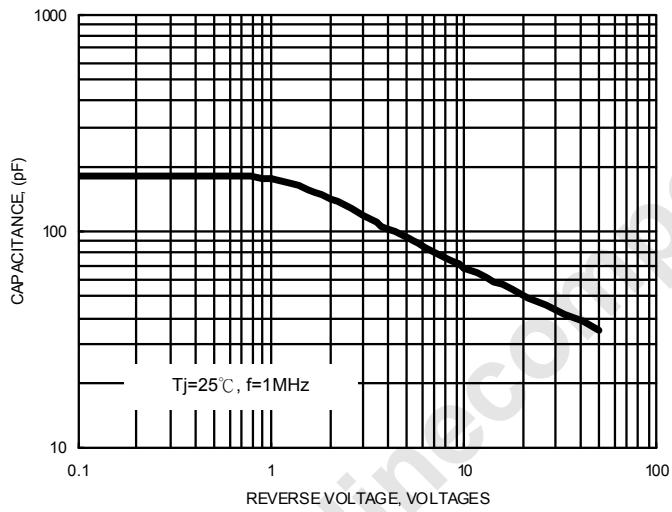


FIG.3- TYPICAL FORWARD CHARACTERISTICS

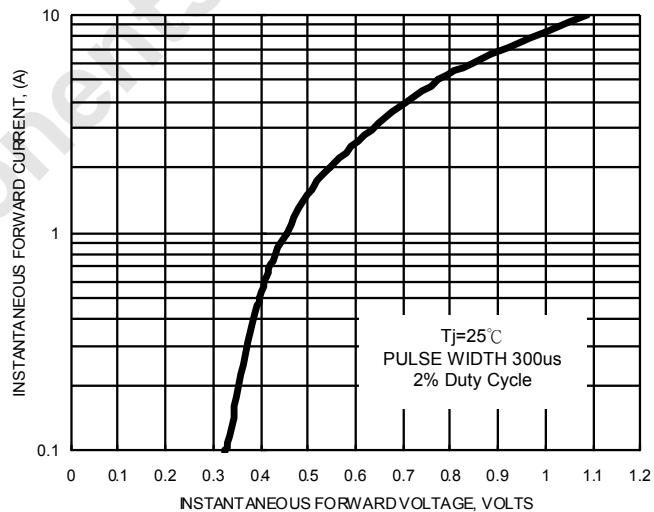


FIG.5- TYPICAL REVERSE CHARACTERISTICS

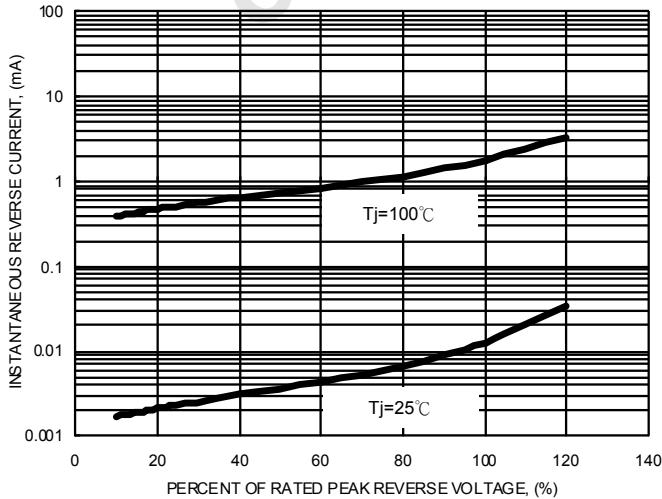
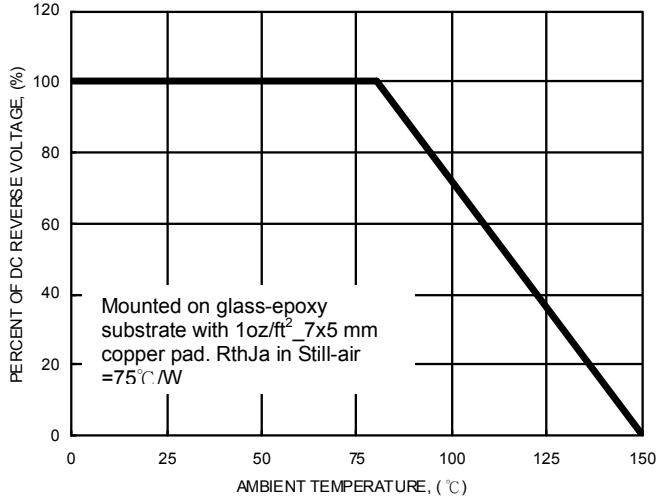


FIG.6- DC REVERSE VOLTAGE DERATING CURVE



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