

**SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIERS**

**REVERSE VOLTAGE – 50 to 60 Volts
FORWARD CURRENT – 3.0 Amperes**

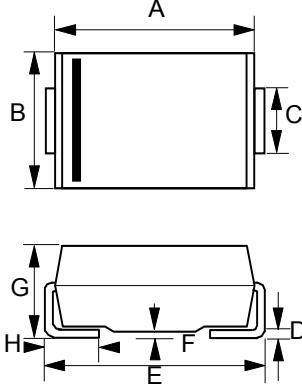
FEATURES

- For surface mounted application
- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- IEC 61000-4-2, level 4 (ESD), > 15KV (air)

MECHANICAL DATA

- Case: Molded plastic
- Case Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Polarity: Color band denotes cathode
- Weight: 0.007 ounces, 0.21 grams

SMC



SMC		
DIM.	MIN.	MAX.
A	6.60	7.11
B	5.59	6.22
C	2.92	3.18
D	0.15	0.31
E	7.75	8.13
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	B350	B360	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	V
Maximum Average Forward Rectified Current @ $T_L=110^\circ C$	I_{AV}		3.0	A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I_{FSM}		100	A
Maximum Forward Voltage at 3.0A DC	V_F		0.7	V
Maximum DC Reverse Current @ $T_j=25^\circ C$ at Rated DC Blocking Voltage @ $T_j=100^\circ C$	I_R	0.05 15		mA
Typical Junction Capacitance (Note 1)	C_j	170		pF
Typical Thermal Resistance (Note 2, 4)	$R_{\theta JL}$	20		°C/W
Typical Thermal Resistance (Note 3, 4)	$R_{\theta JA}$	60		°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

(3) Thermal Resistance Junction to Ambient

(4) Unit mounted on glass epoxy substrate 1oz/ft² 7x5 mm copper pad.

REV.5, Aug-2014, KSHC08

RATING AND CHARACTERISTIC CURVES
B350 thru B360

LITEON

FIG.1- FORWARD CURRENT DERATING CURVE

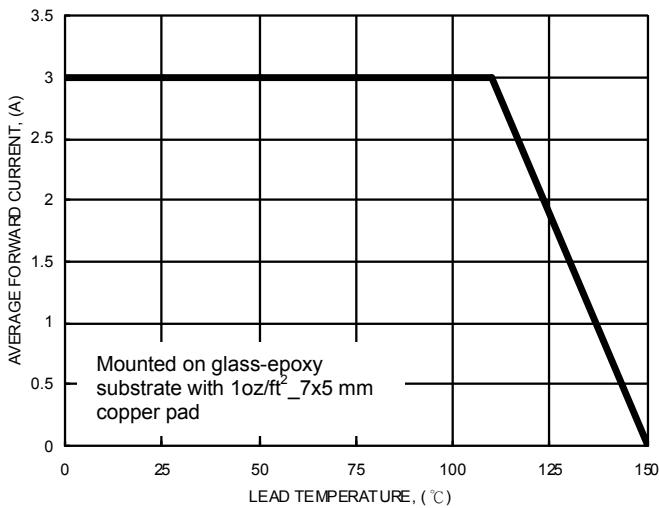


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

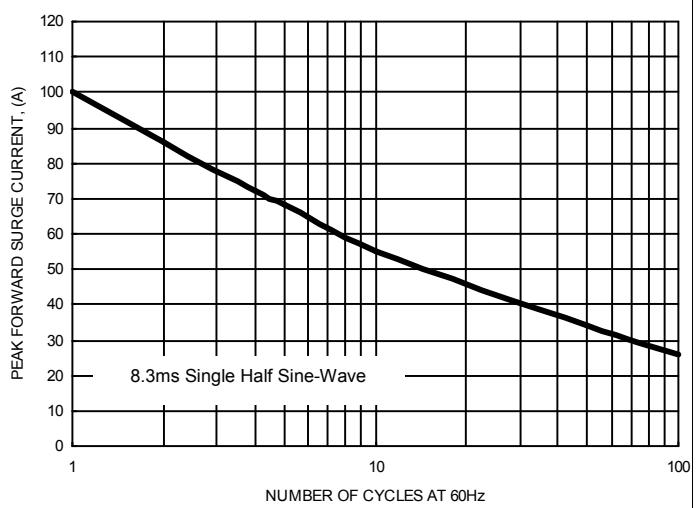


FIG.3- TYPICAL JUNCTION CAPACITANCE

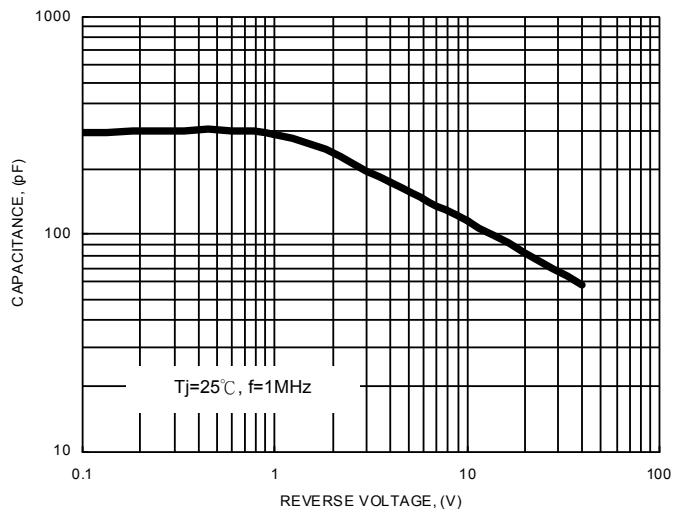


FIG.4- TYPICAL FORWARD CHARACTERISTICS

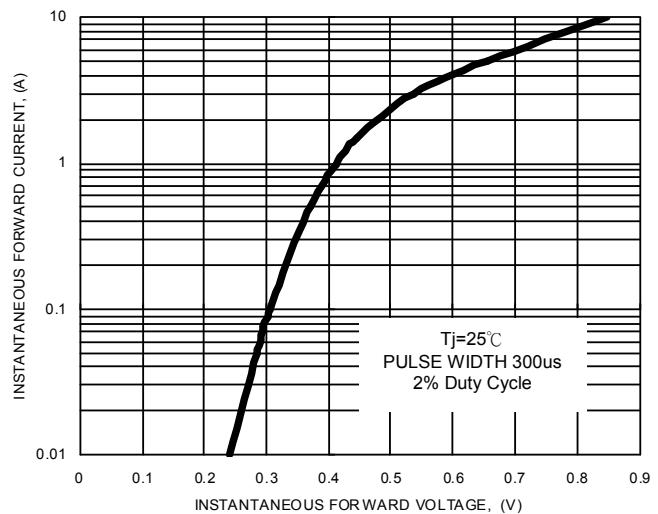


FIG.5- TYPICAL REVERSE CHARACTERISTICS

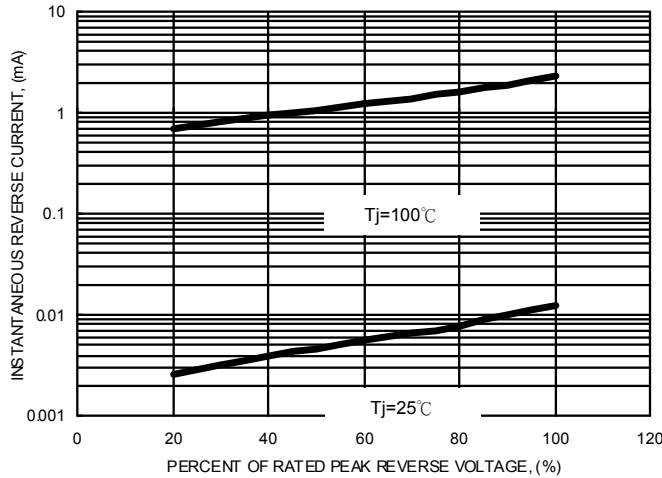
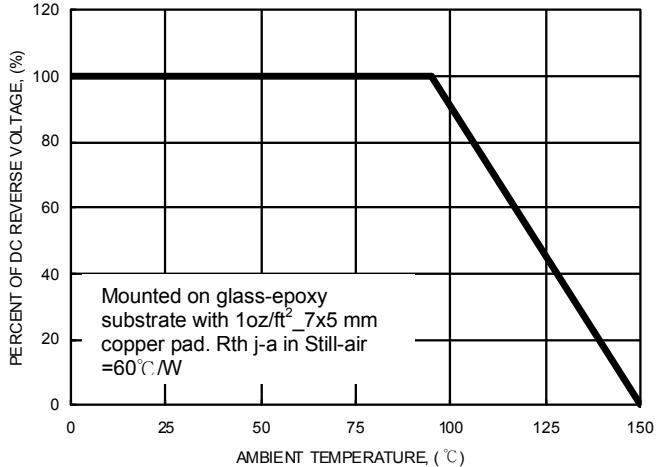


FIG.6- DC REVERSE VOLTAGE DERATING CURVE



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