

**SURFACE MOUNT
SUPER FAST RECTIFIERS**

REVERSE VOLTAGE – 600 Volts
FORWARD CURRENT – 3.0 Amperes

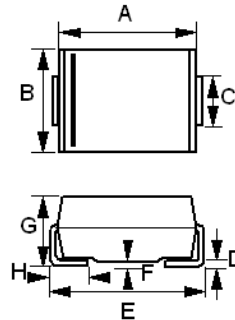
FEATURES

- Glass passivated chip
- Super fast switching for high efficiency
- For surface mounted applications
- Low forward voltage drop and high current capability
- Low reverse leakage current

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: 0.003 ounces, 0.093 grams
- Marking: U3JB

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	MURS360B	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum DC Blocking Voltage	V_{DC}	600	A
Maximum Average Forward Rectified Current @ $T_C=130^{\circ}C$	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	1.25	V
Maximum DC Reverse Current @ $T_J=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_J=150^{\circ}C$	I_R	3.0 150	μA
Maximum Reverse Recovery time ($I_F=0.5A$, $I_R=1.0A$, $I_R=0.25A$)	t_{rr}	50	ns
Single pulse avalanche energy @15mH	E_{AS}	10.8	mJ
Typical Junction Capacitance (Note 1)	C_j	45	pF
Typical Thermal Resistance (Note 2, 3)	$R_{\theta JC}$	12	$^{\circ}C/W$
	$R_{\theta JL}$	26	
	$R_{\theta JA}$	47	
Operating Junction Temperature Range	T_J	-55 to +175	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +175	$^{\circ}C$

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...
(2) Thermal Resistance Junction to Case, Lead and Ambient
(3) Unit mounted on glass epoxy substrate 1oz/ft 12 mm x 12 mm copper pad.

REV.1, Aug-2014, KSGB10

RATING AND CHARACTERISTIC CURVES MURS360B

LITEON

FIG.1- FORWARD CURRENT DERATING CURVE

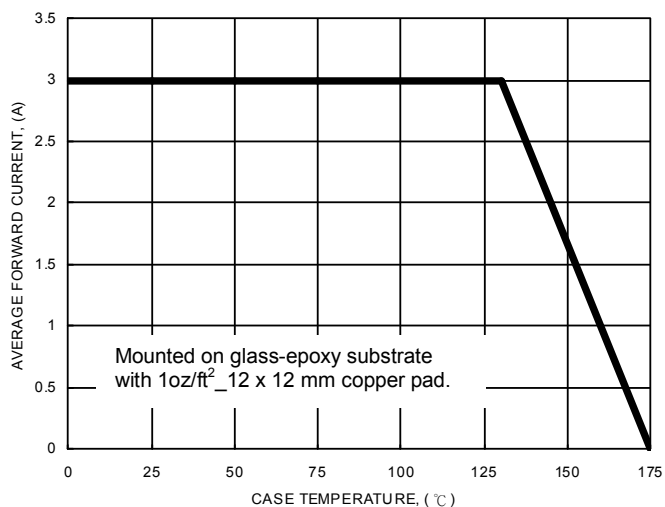


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

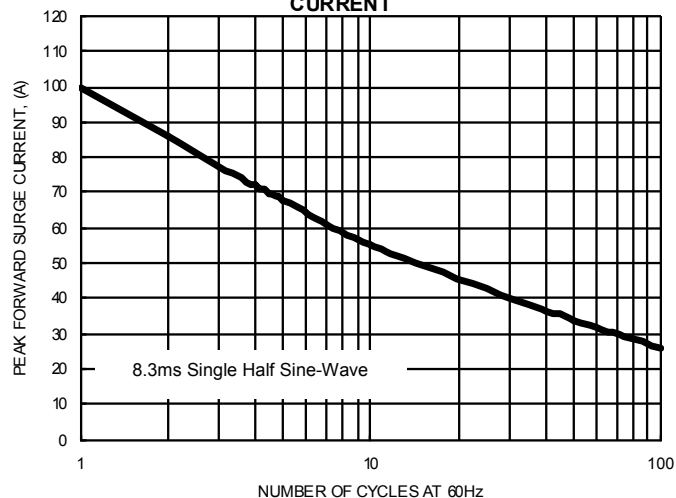


FIG.3- TYPICAL JUNCTION CAPACITANCE

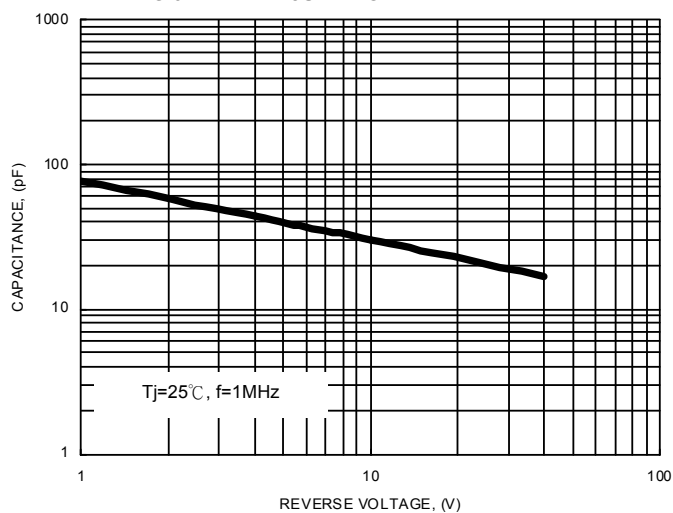


FIG.4- TYPICAL FORWARD CHARACTERISTICS

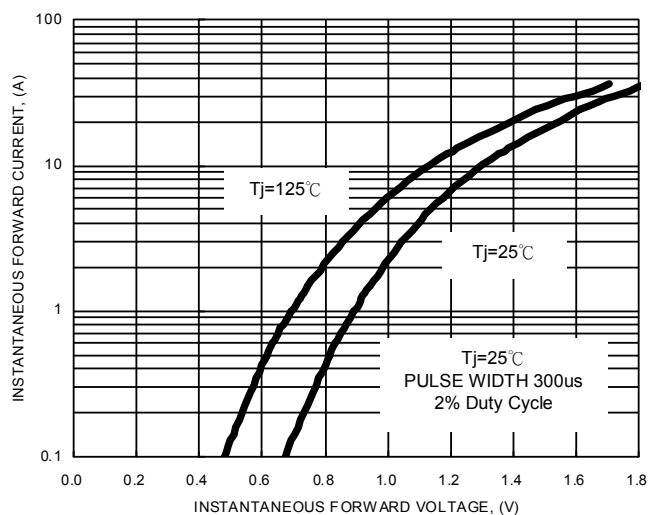
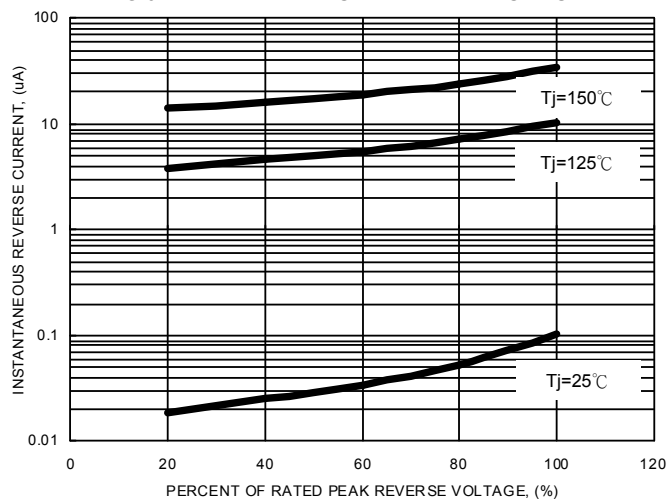


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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