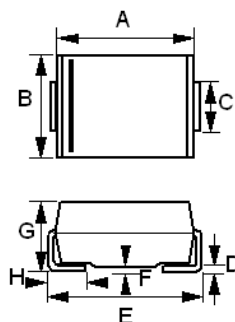


**SURFACE MOUNT
SUPER FAST RECTIFIERS**
REVERSE VOLTAGE – 600 Volts
FORWARD CURRENT – 3.0 Amperes
FEATURES

- 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
- Qualified according to AEC-Q101 Rev_D

MECHANICAL DATA

- Case: Molded plastic
- Case Material: Molding compound, UL Flammability classification 94V-0, "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	VRRM	600	V
Maximum DC Blocking Voltage	VDC	600	V
Maximum Average Forward Rectified Current @Tc=130°C	IAV	3.0	A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	IFSM	100	A
Maximum Forward Voltage at 3.0A DC	VF	1.25	V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=150°C	IR	3.0 150	uA
Maximum Reverse Recovery time (IF =0.5A , IR=1.0A , IR=0.25 A)	trr	50	ns
Single pulse avalanche energy @15mH	EAS	10.8	mJ
Typical Junction Capacitance (Note 1)	Cj	45	pF
Typical Thermal Resistance (Note 2, 3)	RθJC RθJL RθJA	12 26 47	°C/W
Operating Junction Temperature Range	Tj	-55 to +175	°C
Storage Temperature Range	TSTG	-55 to +175	°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.

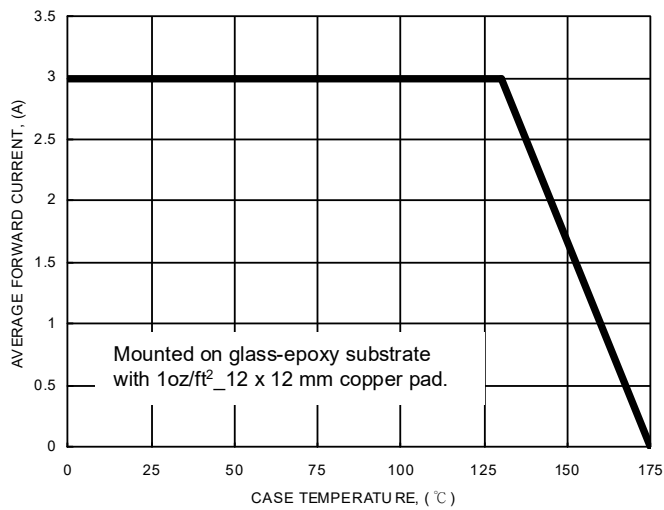
REV.-3, Oct-2019, KSGB10

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RATING AND CHARACTERISTIC CURVES MURS360B

LITEON

FIG.1- FORWARD CURRENT DERATING CURVE



**FIG.2- MAXIMUM NON-REPETITIVE SURGE
CURRENT**

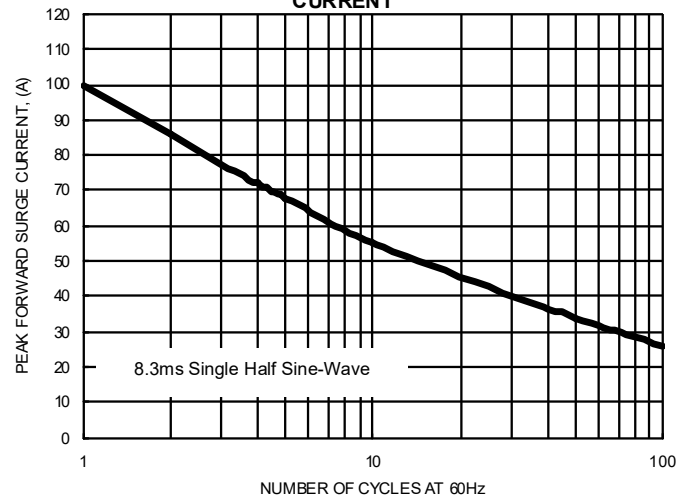


FIG.3- TYPICAL JUNCTION CAPACITANCE

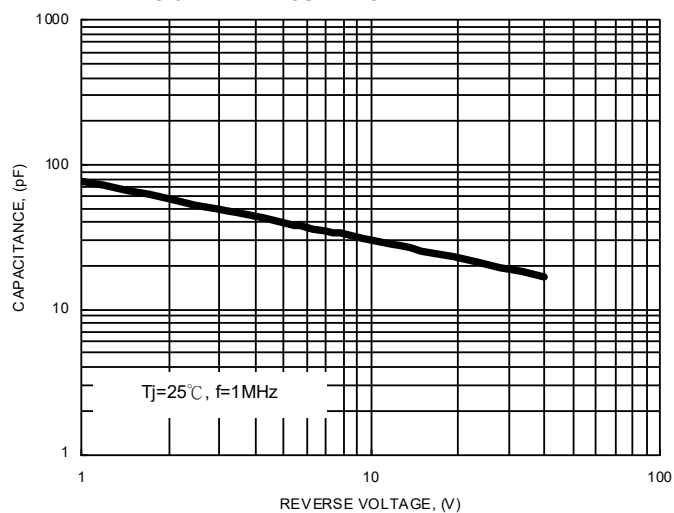


FIG.4- TYPICAL FORWARD CHARACTERISTICS

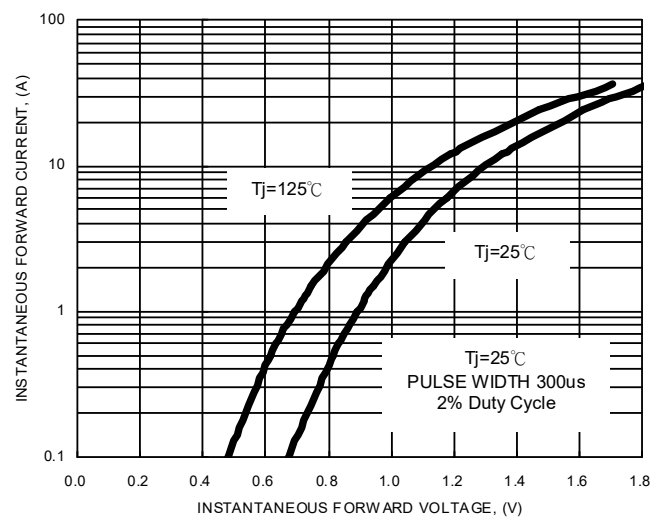
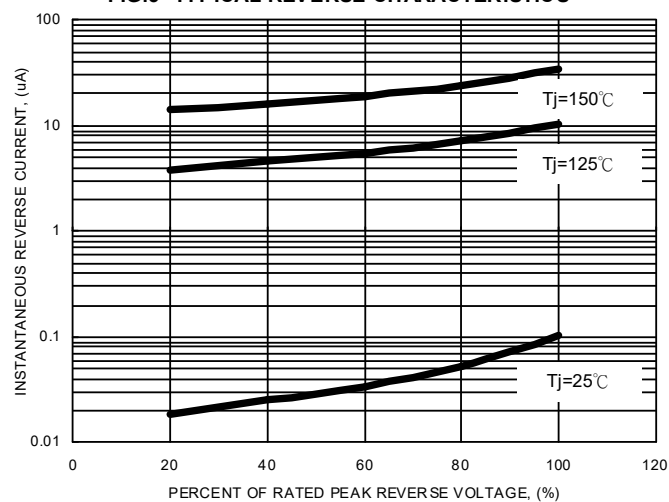


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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