

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
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case Material: “Green” molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.)
- Polarity: Color band denotes cathode
- Weight: 0.01 ounces, 0.249 grams (Approximate)
- Marking Code: U3J

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	MURS360	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum DC Blocking Voltage	V_{DC}	600	A
Maximum Average Forward Rectified Current @ $T_c=140^\circ C$	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	uA
Maximum Reverse Recovery time ($I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$)	t_{rr}	50	ns
Single pulse avalanche energy @ 15mH	E_{AS}	10.8	mJ
Typical Junction Capacitance (Note 1)	C_j	40	pF
Typical Thermal Resistance (Note 2, 3)	$R_{\theta JC}$ $R_{\theta JL}$ $R_{\theta JA}$	10 16 48	$^\circ C/W$
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, 10 mmx10 mm copper pad.

FIG.1- FORWARD CURRENT DERATING CURVE

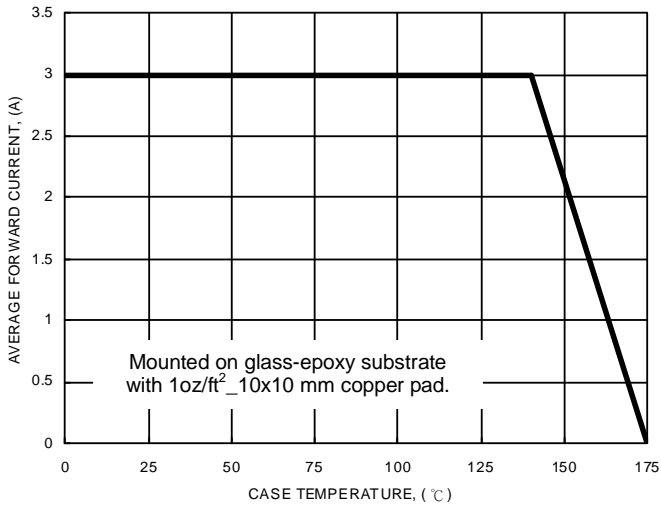


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

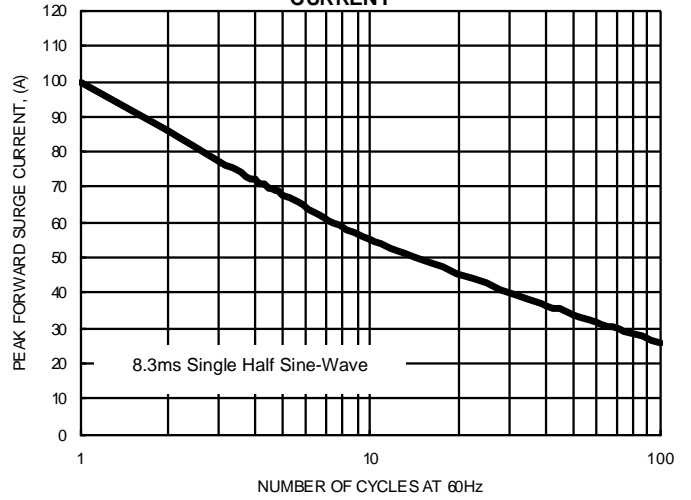


FIG.3- TYPICAL JUNCTION CAPACITANCE

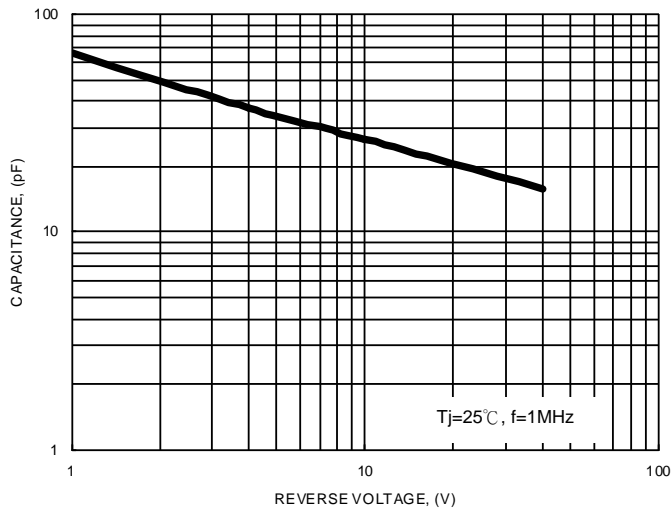


FIG.4- TYPICAL FORWARD CHARACTERISTICS

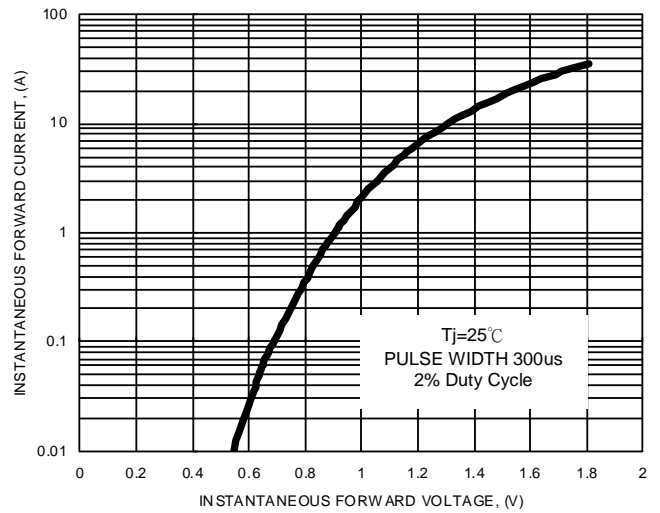
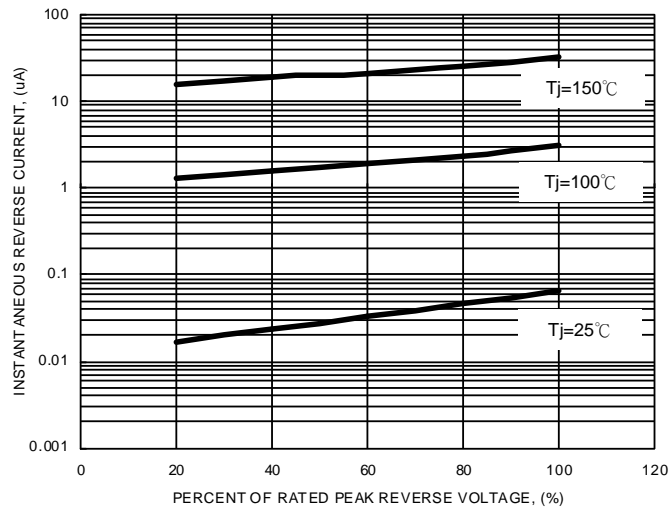


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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