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### SURFACE MOUNT SUPER FAST RECTIFIERS

#### 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

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**REVERSE VOLTAGE** 

FORWARD CURRENT

## **MURS360**

600 Volts

3.0 Amperes

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SMC				
DIM.	MIN.	MAX.		
А	6.60	7.11		
В	5.59	6.22		
С	2.92	3.18		
D	0.15	0.31		
Е	7.75	<mark>8</mark> .13		
F	0.05	0.20		
G	2.01	2.50		
Н	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 <sub>RRM</sub>	600	V
Maximum DC Blocking Voltage	Vdc	600	А
Maximum Average Forward Rectified Current @Tc=140℃	I <sub>AV</sub>	3.0	А
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	100	A
Maximum Forward Voltage at 3.0A DC	V <sub>F</sub>	1.25	V
Maximum DC Reverse Current @Tj=25℃ at Rated DC Blocking Voltage @Tj=150℃	I <sub>R</sub>	3.0 150	uA
Maximum Reverse Recovery time (IF =0.5A , IR=1.0A , IRR=0.25 A)	t <sub>rr</sub>	50	ns
Single pulse avalanche energy @15mH	E <sub>AS</sub>	10.8	mJ
Typical Junction Capacitance (Note 1)	Cj	40	pF
Typical Thermal Resistance (Note 2, 3)	R⊖ <sub>JC</sub> R⊖ <sub>JL</sub> R⊖ <sub>JA</sub>	10 16 48	£\M
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...

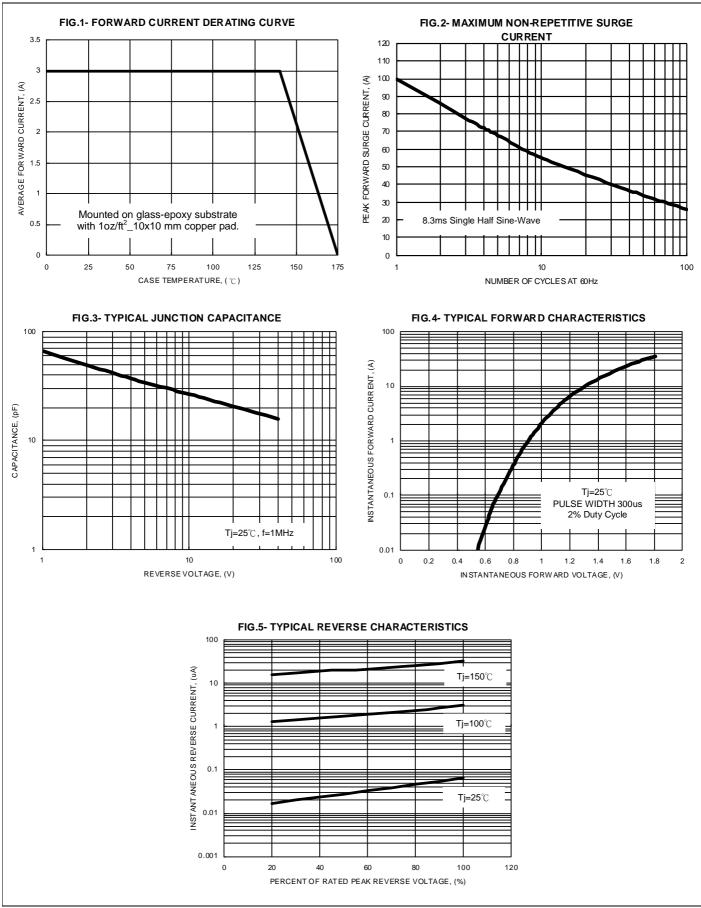
(2) Thermal Resistance Junction to Case, Lead and Ambient.

(3) Unit mounted on glass epoxy substrate 1oz/ft, 10 mmx10 mm copper pad.

REV.2, Sep-2016, KSGC07

## RATING AND CHARACTERISTIC CURVES MURS360

## LITEON





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