

MURS360

SURFACE MOUNT SUPER FAST RECTIFIERS

600 Volts **REVERSE VOLTAGE** 3.0 Amperes FORWARD CURRENT

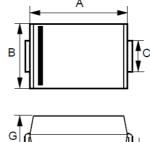
FEATURES

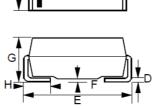
- · Glass passivated chip
- Super fast switching for high efficiency
- For surface mounted applications
- Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

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. | | |
| Α | 6.60 | 7.11 | | |
| В | 5.59 | 6.22 | | |
| С | 2.92 | 3.18 | | |
| D | 0.15 | 0.31 | | |
| Е | 7.75 | 8.13 | | |
| 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℃ ambient temperature unless otherwise specified.

| CHARACTERISTICS | SYMBOL | MURS360 | UNIT |
|---|--|----------------|------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 600 | V |
| Maximum DC Blocking Voltage | VDC | 600 | А |
| Maximum Average Forward Rectified Current @Tc=140°C | I _{AV} | 3.0 | А |
| Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 100 | А |
| Maximum Forward Voltage at 3.0A DC | V _F | 1.25 | V |
| Maximum DC Reverse Current @Tj=25℃ at Rated DC Blocking Voltage @Tj=150℃ | I _R | 3.0 150 | uA |
| Maximum Reverse Recovery time (IF =0.5A , IR=1.0A , IRR=0.25 A) | t _{rr} | 50 | ns |
| Single pulse avalanche energy @15mH | E _{AS} | 10.8 | mJ |
| Typical Junction Capacitance (Note 1) | Cj | 40 | pF |
| Typical Thermal Resistance (Note 2, 3) | R⊕ _{JC} R⊕ _{JL} R⊕ _{JA} | 10 16 48 | C/W |
| Operating Junction Temperature Range | Tj | -55 to +175 | C. |
| Storage Temperature Range | Tstg | -55 to +175 | С |

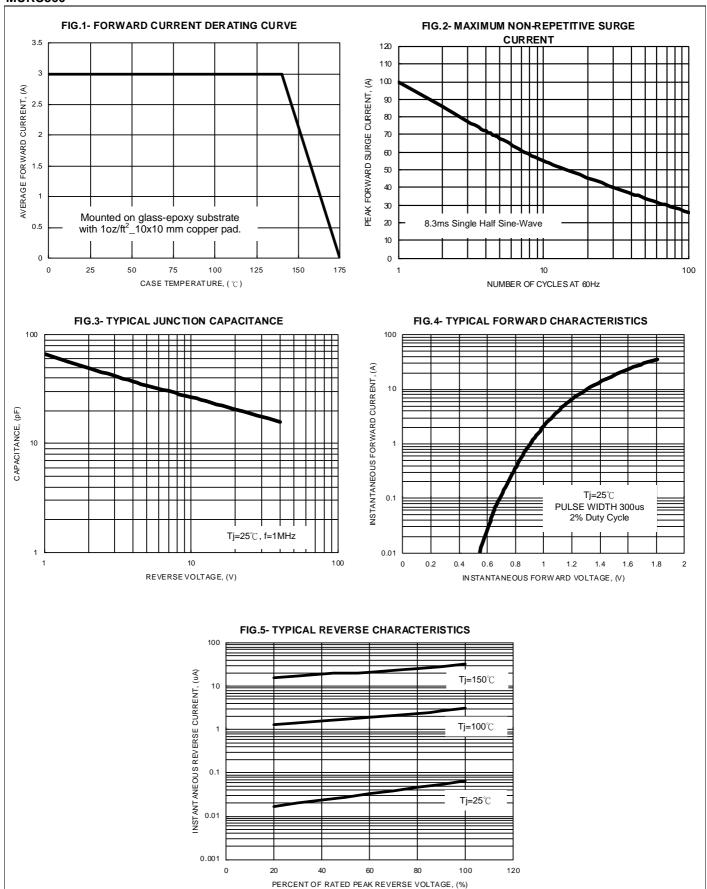
Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...

- (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







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