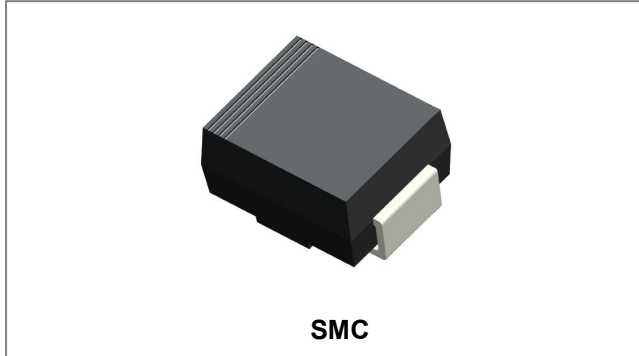


MURS360 ULTRAFAST RECTIFIER



Features

- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-0
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Weight: 0.23grams(approx)

Maximum Ratings and Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

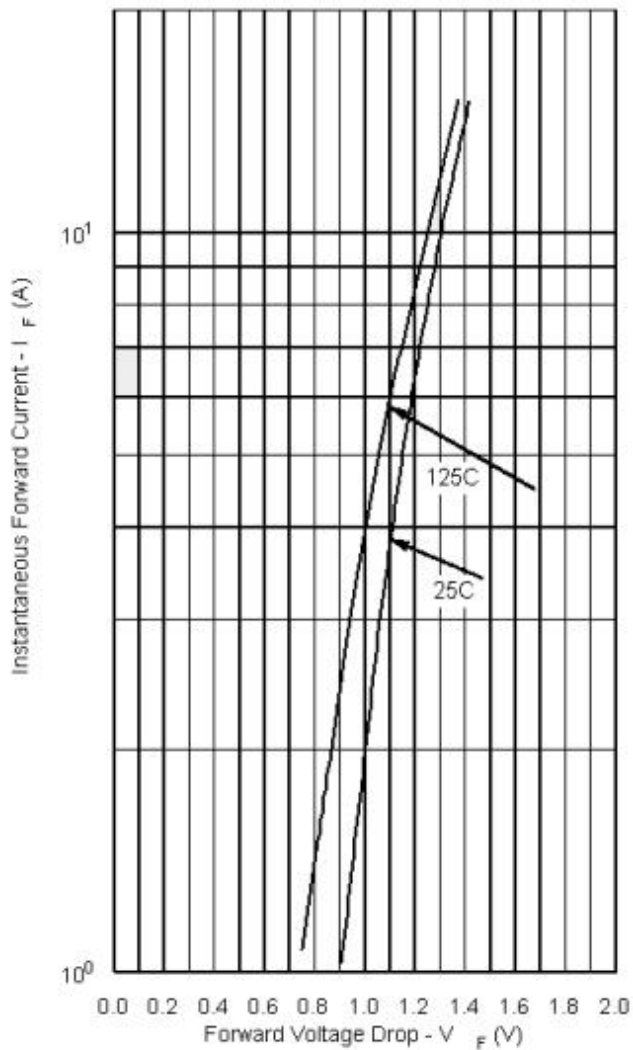
| Characteristic | Symbol | MURS360 | Unit |
|---|---------------------------------|-------------|--------------------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} V_{RWM} V_R | 600 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 420 | V |
| Average Rectified Output Current (Note 1) @ $T_A = 55^{\circ}\text{C}$ | I_O | 3.0 | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 150 | A |
| Forward Voltage (per element) @ $I_F = 3.0\text{A}$ | V_{FM} | 1.25 | V |
| Peak Reverse Current @ $T_A = 25^{\circ}\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^{\circ}\text{C}$ | I_{RM} | 5.0 500 | μA |
| Maximum Reverse Recovery Time (Note 1) | T_{rr} | 50 | ns |
| Typical Thermal Resistance Junction to Ambient (Note 2) | $R_{\theta JA}$ | 25 | K/W |
| Junction Temperature | T_J | -55 to +150 | $^{\circ}\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | $^{\circ}\text{C}$ |

Note: 1. Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$
 2. Mount on Cu-Pad Size 16mm×16mm on P.C.B.

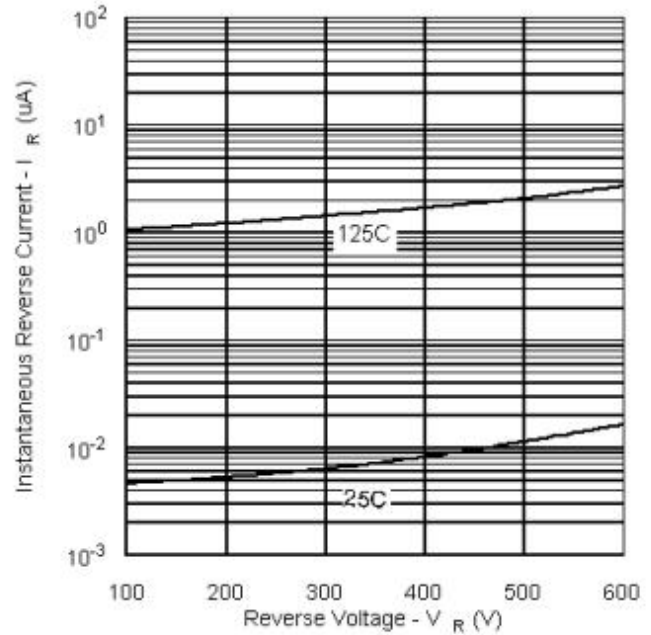
- China - Germany - Korea - Singapore - United States •
- <http://www.smc-diodes.com> - sales@smc-diodes.com •

Ratings and Characteristics Curves

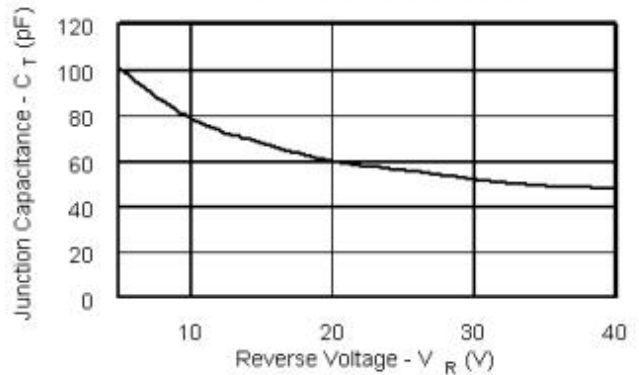
Typical Forward Characteristics

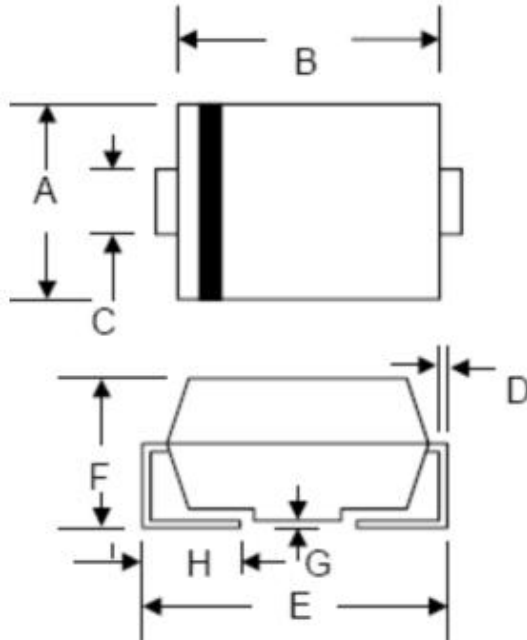


Typical Reverse Characteristics



Typical Junction Capacitance



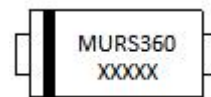
Mechanical Dimensions SMC


| SYMBOL | Millimeters | | Inches | |
|--------|-------------|-------|--------|-------|
| | Min. | Max. | Min. | Max. |
| A | 5.59 | 6.22 | 0.220 | 0.245 |
| B | 6.60 | 7.11 | 0.260 | 0.280 |
| C | 2.75 | 3.25 | 0.108 | 0.128 |
| D | 0.152 | 0.305 | 0.006 | 0.012 |
| E | 7.75 | 8.25 | 0.305 | 0.325 |
| F | 2.00 | 2.95 | 0.079 | 0.116 |
| G | 0.051 | 0.203 | 0.002 | 0.008 |
| H | 0.76 | 1.60 | 0.030 | 0.063 |

Ordering Information

| Device | Package | Shipping |
|---------|---------------|----------------|
| MURS360 | SMC (Pb-Free) | 3000pcs / reel |

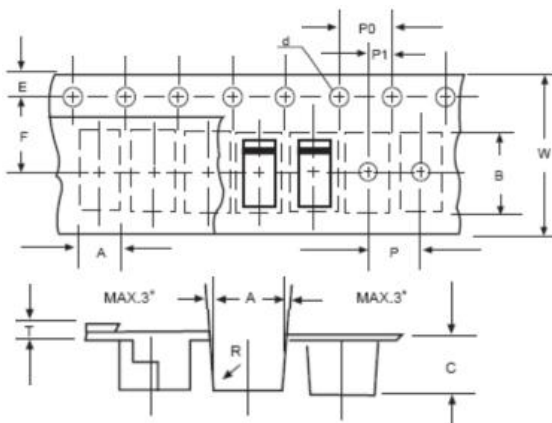
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram


Where XXXXX is YYWWL

MURS = Device Type
 3 = Forward Current (3A)
 60 = Reverse Voltage (600V)
 YY = Year
 WW = Week
 L = Lot Number

Cautions: Molding resin
 Epoxy resin UL:94V-0

Carrier Tape Specification SMC


| SYMBOL | Millimeters | |
|--------|-------------|-------|
| | Min. | Max. |
| A | 5.90 | 6.10 |
| B | 8.20 | 8.40 |
| C | 2.40 | 2.60 |
| d | 1.40 | 1.60 |
| E | 1.40 | 1.60 |
| F | 7.60 | 7.70 |
| P | 7.90 | 8.10 |
| P0 | 3.90 | 4.10 |
| P1 | 3.90 | 4.10 |
| T | - | 0.600 |
| W | 15.80 | 16.20 |

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