



Micro Commercial Components

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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

SR208 THRU SR2010

Features

- Guard Ring Protection
- Low Power Loss for High Efficiency
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

Maximum Ratings

- Operating Temperature: -50°C to +125°C
- Storage Temperature: -50°C to +125°C
- Maximum Thermal Resistance: 35°C/W Junction To Ambient

| MCC catalog Number | Device Marking | Maximum Reccurent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| SR208 | SR208 | 80V | 56V | 80V |
| SR2010 | SR2010 | 100V | 70V | 100V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

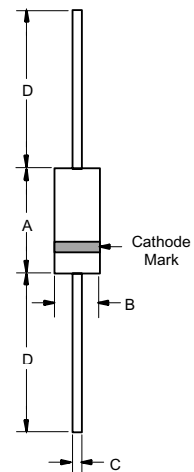
| | | | |
|------------------------------|-------------|-------|--|
| Average forward current | $I_{F(AV)}$ | 2A | |
| Maximum surge current | I_{FSM} | 50A | 8.3ms, half sine, |
| Max peak forward voltage | V_{FM} | .85V | $I_{FM} = 2.0A$; $T_J = 25^\circ C^*$ |
| Max peak reverse current | I_{RM} | 1.0mA | V_{RRM} , $T_J = 25^\circ C$ |
| Typical junction capacitance | C_J | 170pF | $V_R = 4.0V$ $f = 1.0MHz$ |

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

2 Amp Schottky Barrier Rectifier 80 to 100 Volts

DO-41



| DIMENSIONS | | | | | |
|------------|--------|------|-------|------|------|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | |
| A | .166 | .205 | 4.10 | 5.20 | |
| B | .080 | .107 | 2.00 | 2.70 | |
| C | .028 | .034 | .70 | .90 | |
| D | 1.000 | --- | 25.40 | --- | |

SR208 thru SR2010

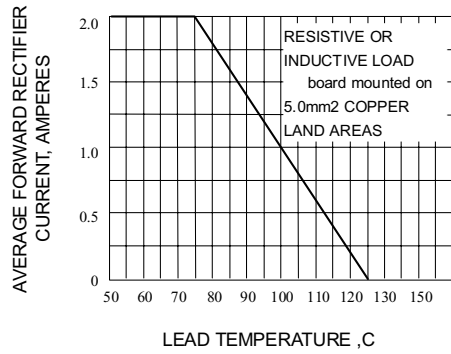


Fig. 1-FORWARD CURRENT DERATING CURVE

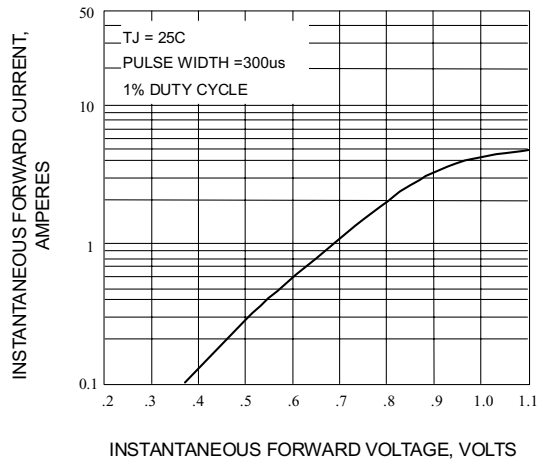


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

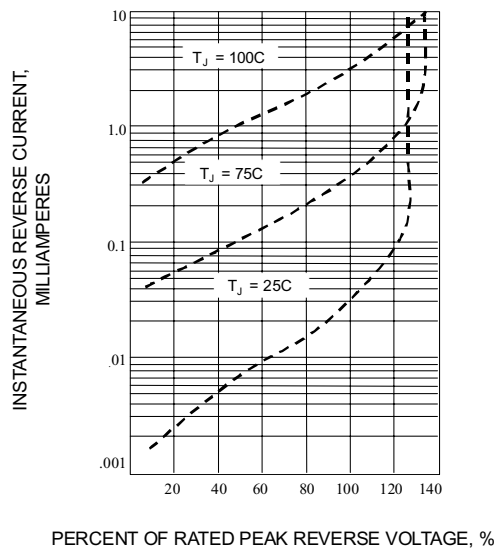


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

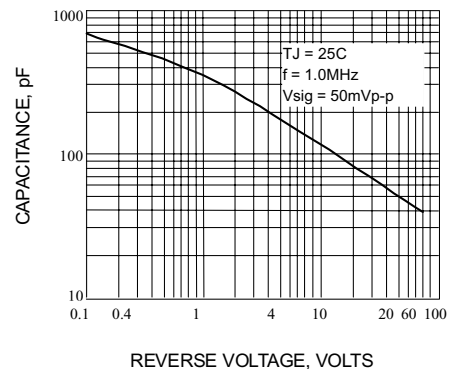


Fig. 4-TYPICAL JUNCTION CAPACITANCE

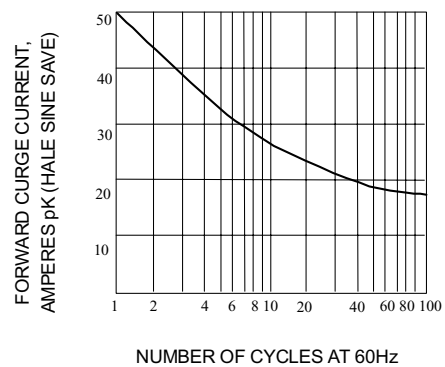


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

Ordering Information

| Device | Packing |
|------------------|----------------------------|
| (Part Number)-TP | Tape&Reel; 5Kpcs/Reel |
| (Part Number)-AP | Ammo Packing;5Kpcs/AmmoBox |
| (Part Number)-BP | Bulk;1Kpcs/Box |

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