

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 **SR1045**

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Guard Ring Protection
- **High Surge Current Capability**
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications

Maximum Ratings

- Operating Temperature: -55°C to +150°C Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 3°C/W Junction to Case

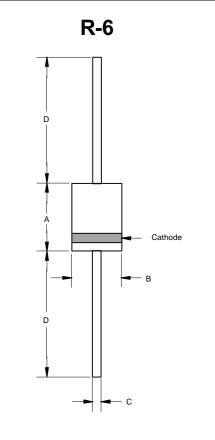
| MCC Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|---|------------------------|-----------------------------------|
| SR1045 | 45V | 31.5V | 45V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Rectified Output current | Io | 10A | T _C = 95°C |
|----------------------------------|------------------|-------|------------------------------------|
| Maximum surge current | I _{FSM} | 275A | 8.3ms,half sine |
| Max peak forward | | | |
| voltage | V_{FM} | .55V | I _{FM} = 10A |
| Max peak reverse | 1 | 0.5mA | T _J = 25 [°] C |
| current | I _{RM} | 50mA | T _J = 100°C |
| Typical junction capacitance | CJ | 450pF | V _R = 4.0V, f=1.0MHz |
| | | | t=1.0MHz |

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

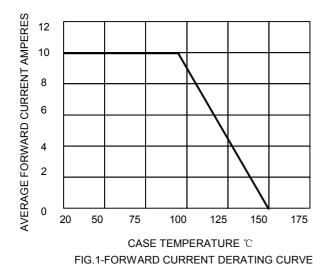
10 Amp Schottky **Barrier Rectifier** 45 Volts

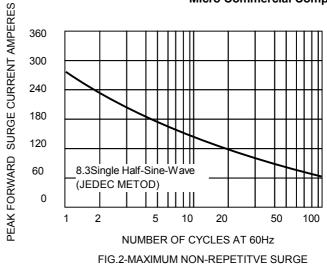


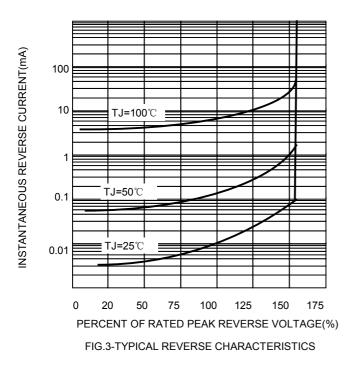
| DIMENSIONS | | | | | | |
|------------|--------|------|-------|------|------|--|
| | INCHES | | MM | | | |
| DIM | MIN | MAX | MIN | MAX | NOTE | |
| Α | .340 | .360 | 8.60 | 9.10 | | |
| В | .340 | .360 | 8.60 | 9.10 | | |
| С | .048 | .052 | 1.20 | 1.30 | | |
| D | 1.000 | | 25.40 | | | |

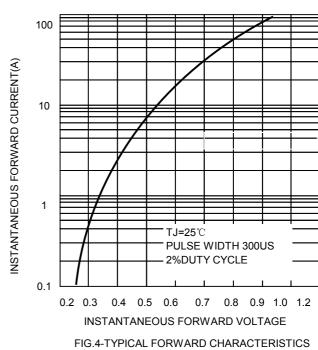
SR1045

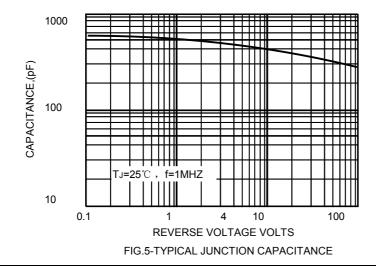
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Ordering Information:

| Part Number-TP | Tape&Reel: 500pcs/Reel |
|----------------|-------------------------------|
| Part Number-AP | Ammo Packing: 450pcs/Ammo Box |
| Part Number-BP | Bulk: 4.8Kpcs/Carton |

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