

SSR2045CT

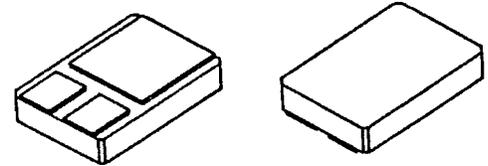
**20 AMPS
45 VOLTS
SCHOTTKY
RECTIFIER
CENTERTAP**

Designer's Data Sheet

FEATURES:

- Low Profile, Hermetically Sealed
- Replaces TO-3 and TO-254 Package
- Very Low Forward Voltage
- Low Reverse Leakage: 10mA @100°C
- 175°C Operating Junction Temperature
- Guarding For Overvoltage Protection
- Available in Common Anode "CA" or Doubler "D" Configurations

MILPACK



MAXIMUM RATINGS

| RATING | SYMBOL | VALUE | UNIT |
|--|------------|-------------|-------|
| Peak Repetitive Reverse and DC Blocking Voltage | VRRM | | |
| | VRWM | 45 | Volts |
| | VR | | |
| RMS Reverse Voltage | VR | 32 | Volts |
| Half Wave Rectified Forward Current Averaged Over Full Cycle (Resistive Load, 60Hz, Sine Wave, TA=55°C, TC=120°C) | Io | 20 | Amps |
| Average Rectified Forward Current (TA=55°C, 8.3 ms Pulse, Allow Junction to reach Equilibrium between Pulses) | IFSR | 40 | Amps |
| Peak Surge Current (TA=55°C, 8.3 ms Pulse, Superimposed on Rated Current at Rated Voltage) | IFSM | 250 | Amps |
| Operating and storage temperature | Top & Tstg | -65 to +175 | °C |
| Maximum Thermal Resistance Junction to Case, Both Legs Tied Together | RθJC | 1.5 | °C/W |

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET#: RS0299 B

SSR2045CT

PRELIMINARY

SSDI
SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638
 Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

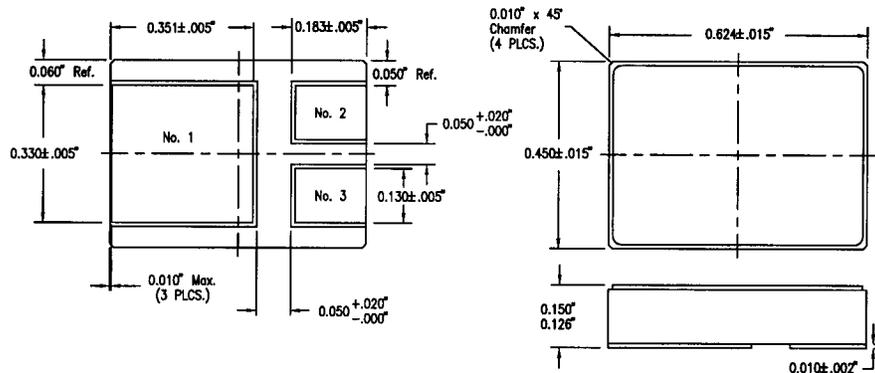
ELECTRICAL CHARACTERISTICS

| CHARACTERISTICS | SYMBOL | MAXIMUM | UNIT |
|---|------------|---|----------|
| +-Instantaneous Forward Voltage Drop Per Leg (TA=25°C, 300-500µs Pulse) IF= 5A IF= 10A IF= 15A | VF1 | 0.55 0.63 0.70 | Vdc |
| Instantaneous Forward Voltage Drop Per Leg (TA= 100°C, 300-500µs Pulse) IF= 5A IF= 10A IF= 15A | VF2 | 0.50 0.60 0.66 | Vdc |
| Instantaneous Forward Voltage Drop Per Leg (TA= - 55°C, 300-500µs Pulse) IF= 5A | VF3 | 0.60 | Vdc |
| Reverse Leakage Current (VR = 45V, TA=25°C) (VR = 45V, TA=100°C) | IR | 100 10 | µA mA |
| Junction Capacitance (VR = 10 Vdc, TA=25°C, f = 1 MHz) | CJ | 400 | pf |

CASE OUTLINE: MILPACK

PIN OUT:

PIN 1: CATHODE
PIN 2: ANODE
PIN 3: ANODE



TYPICAL OPERATING CURVES

(TA=25°C Unless otherwise specified)

