



SOLID STATE DEVICES, INC

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

PRELIMINARY

SSR2045CT

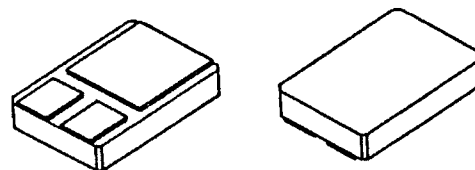
Designer's Data Sheet

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

**20 AMPS
45 VOLTS
SCHOTTKY
RECTIFIER
CENTERTAP**

MILPACK



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM VRWM VR	45	Volts
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

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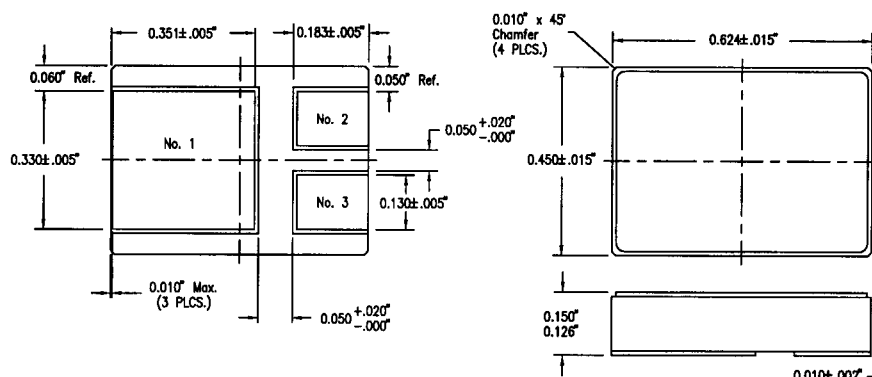
ELECTRICAL CHARACTERISTICS

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)

