



PRELIMINARY

SOLID STATE DEVICES, INC

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

**SDR10ASMS
thru
SDR10MSMS**



Designer's Data Sheet

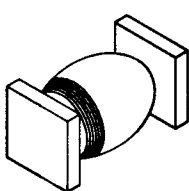
**10 AMPS
50-1000 VOLTS
5 μsec
STANDARD RECOVERY
RECTIFIER**

FEATURES:

- Standard Recovery: 5 μsec maximum
- PIV to 1000 Volts
- Replaces larger DO-4 Rectifiers
- Hermetically Sealed Surface Mount package
- Single Chip Construction
- High Surge Rating
- Low Thermal Resistance
- Available in axial lead version
- Faster recovery devices are available

- TX, TXV, and Space Level Screening

**SURFACE MOUNT
SQUARE TAB**



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR10ASMS SDR10BSMS SDR10DSMS SDR10GSMS SDR10JSMS SDR10KSMS SDR10MSMS	VRRM VRWM VR	50 100 200 400 600 800 1000	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	10	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C)	IFSM	150	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to End Tabs	RθJE	4	°C/W

SDR10ASMS thru SDR10MSMS

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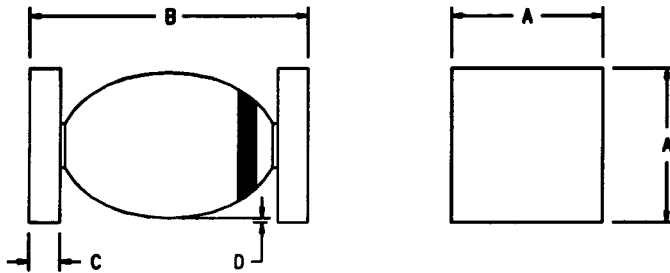
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 10 Adc, TA=25°C, 300µs Pulse)	VF	1.25	Vdc
Instantaneous Forward Voltage Drop (IF = 10 Adc, TA= - 55°C, 300µs Pulse)	VF	1.40	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR	5	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR	200	µA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	80	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	trr	5	µsec

CASE OUTLINE: SURFACE MOUNT SQUARE TAB



DIMENSIONS		
DIM	MIN	MAX
A	.195"	.205"
B	.200"	.250"
C	.022"	.028"
D	.002"	---

Dimensions are prior to solder dipping

TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

