



PRELIMINARY

SOLID STATE DEVICES, INC

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

SDR10A thru SDR10M

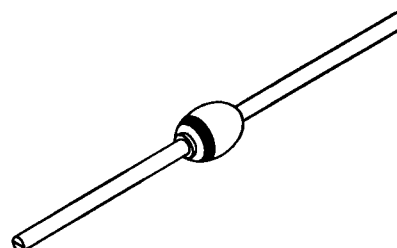
Designer's Data Sheet

FEATURES:

- Standard Recovery: 5 μ sec maximum
- PIV to 1000 Volts
- Replaces larger DO-4 Rectifiers
- Hermetically Sealed
- Single Chip Construction
- High Surge Rating
- Low Thermal Resistance
- Available in surface mount versions
- Faster recovery devices are available
- TX, TXV, and Space Level Screening available

**10 AMPS
50-1000 VOLTS
5 μ sec
STANDARD RECOVERY
RECTIFIER**

AXIAL



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR10A SDR10B SDR10D SDR10G SDR10J SDR10K SDR10M	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 Leads, L=3/8"	R θ JL	6	°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#: R00001 A

RMD

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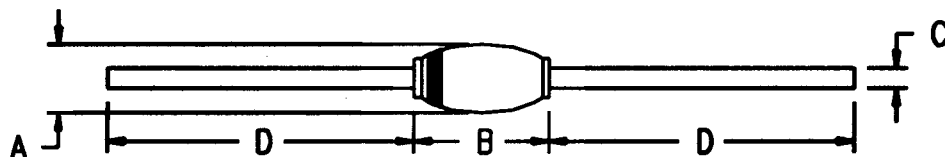
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ELECTRICAL CHARACTERISTICS

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: AXIAL



DIMENSIONS		
DIM	MIN	MAX
A	---	.200"
B	.150"	.180"
C	.057"	.063"
D	.40"	---

TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

