



PRELIMINARY

SOLID STATE DEVICES, INC

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

Designer's Data Sheet

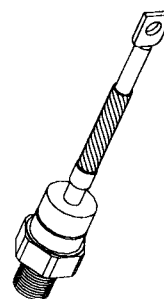
FEATURES:

- Forward current to 200 Amps
- PIV to 1200 Volts
- Transient Voltage rating of 200 Volts above PIV
- Pressure contact device
- Single Chip construction
- Low forward voltage drop
- Hermetically sealed
- For High Power applications
- For reverse polarity ad suffix "R"
- Fast Recovery version available (0.7 usec typical)
- Higher Voltage versions up to 5000 volts available
- TX, TXV, and Space Level Screening available

**SDR8200S4
thru
SDR8200S12**

**200 AMPS
400-1200 VOLTS
15 μ sec
STANDARD RECOVERY
HIGH CURRENT RECTIFIER**

DO-8



MAXIMUM RATINGS

RATING (Note 1)	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR8200S4 SDR8200S6 SDR8200S8 SDR8200S10 SDR8200S12	VRRM VRWM VR	400 600 800 1000 1200	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	200	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)	IFSM	1400	Amps
Operating and storage temperature	Top & Tstg	-55 to +175	°C
Maximum Thermal Resistance Junction to Case	R θ JC	0.25	°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#: RP0013 A

RMD

SDR8200S4 thru SDR8200S12

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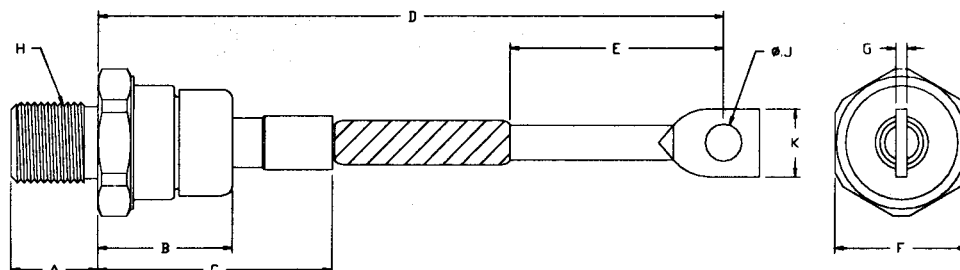
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 200 Adc Pulse, TJ=25°C)	VF	1.45	Vdc
Instantaneous Forward Voltage Drop (IF = 200 Adc Pulse, TJ= +175°C)	VF	1.40	Vdc
Reverse Leakage Current (Rated VR pulse, TJ=25°C)	IR	1.5	mA
Reverse Leakage Current (Rated VR pulse, TJ=175°C)	IR	40	mA
Reverse Recovery Time (IFM=200 A, VR=400V, di/dt= -25μs, Rs=10Ω, Cs=0.5μF, TA=25°C)	trr	15	μsec

CASE OUTLINE: DO-8



DIM	MIN	MAX
A	0.60"	0.65"
B	---	1.6"
C	---	1.675"
D	3.8"	6.0"
E	0.8"	2.2"typ
F	1.031"	1.063"
G	0.050"	0.100"
H	.375-24UNF	
J	0.250"	0.310"
K	0.437"	0.650"

TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

