



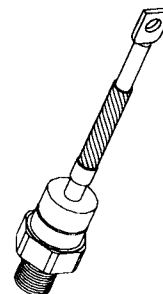
PRELIMINARY

[查询"SDR8300S12"供应商](#)**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 300 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

**SDR8300S4
thru
SDR8300S12****300 AMPS
400-1200 VOLTS
15μsec
STANDARD RECOVERY
HIGH CURRENT RECTIFIER**

DO-8

**MAXIMUM RATINGS**

RATING (Note 1)	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR8300S4 SDR8300S6 SDR8300S8 SDR8300S10 SDR8300S12	VRRM VRWM VR	400 600 800 1000 1200	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	300	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)	IFSM	1800	Amps
Operating and storage temperature	Top & Tstg	-55 to +175	°C
Maximum Thermal Resistance Junction to Case	RθJC	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#: RP0015 A****RMD**

SDR8300S4

查询"SDR8300S12"供应商

SDR8300S12

PRELIMINARY



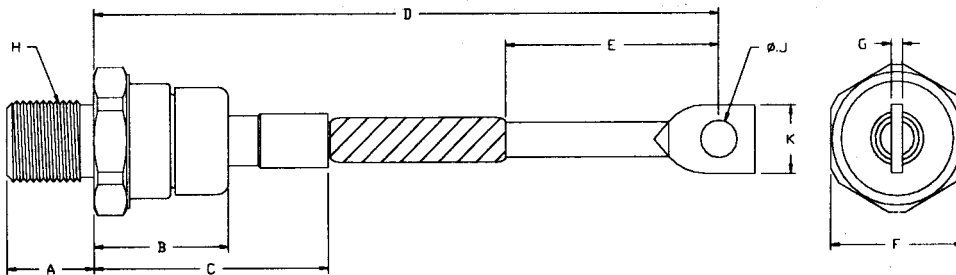
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 300 Adc Pulse, TJ=25°C)	VF	1.50	Vdc
Instantaneous Forward Voltage Drop (IF = 300 Adc Pulse, TJ= +175°C)	VF	1.45	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=300 A, VR=400V, di/dt= -25μs, Rs=10Ω, Cs=0.5μF, TA=25°C)	t _{rr}	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

