



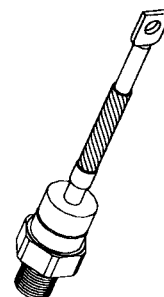
PRELIMINARY

[查询"SDR9800S10"供应商](#)**SOLID STATE DEVICES, INC**14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424**SDR9800S10
thru
SDR9800S20****Designer's Data Sheet****FEATURES:**

- Forward current to 800 Amps
- PIV to 2000 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

**800 AMPS
1000-2000 VOLTS
25μsec
STANDARD RECOVERY
HIGH CURRENT RECTIFIER**

DO-9

**MAXIMUM RATINGS**

RATING (Note 1)	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR9800S10 SDR9800S15 SDR9800S20	VRRM VRWM VR	1000 1500 2000	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	800	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)	IFSM	6500	Amps
Operating and storage temperature	Top & Tstg	-55 to +175	°C
Maximum Thermal Resistance Junction to Case	RθJC	0.14	°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#: RP0011 A****RMD**

SDR9800S10

查询"SDR9800S10"供应商

SDR9800S20

PRELIMINARY



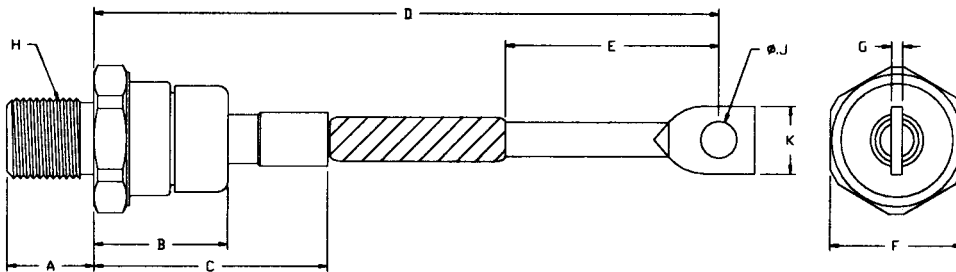
SOLID STATE DEVICES, INC

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

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 800$ A dc pulse, $T_J = 25^\circ\text{C}$)	V_F	1.35	Vdc
Instantaneous Forward Voltage Drop ($I_F = 800$ A dc pulse, $T_J = +175^\circ\text{C}$)	V_F	1.30	Vdc
Reverse Leakage Current (Rated VR pulse, $T_J = 25^\circ\text{C}$)	I_R	2	mA
Reverse Leakage Current (Rated VR pulse, $T_J = 175^\circ\text{C}$)	I_R	40	mA
Reverse Recovery Time ($I_{FM} = 800$ A, $V_R = 400$ V, $di/dt = -25 \mu\text{s}$, $R_s = 10 \Omega$, $C_s = 0.5 \mu\text{F}$, $T_A = 25^\circ\text{C}$)	t_{rr}	25	μsec

CASE OUTLINE: DO-9



DIM	MIN	MAX
A	0.79"	0.83"
B	---	1.6"
C	---	2.25"
D	5.00"	6.00"
E	0.8"	2.2" typ
F	1.212"	1.250"
G	0.063"	0.172"
H	0.75-16UNF	
J	0.265"	0.350"
K	0.530"	0.755"

TYPICAL OPERATING CURVES

$T_A = 25^\circ\text{C}$ Unless otherwise specified

