

**SDR1AHFSMS
thru
SDR1NHFSMS**

Designer's Data Sheet

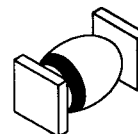
FEATURES:

- Hyper Fast Recovery: 30 nsec Maximum
- PIV to 1200 Volts
- Hermetically Sealed Surface Mount package
- Void Free Construction
- For High Efficiency Applications
- Single Chip Construction
- Low Reverse Leakage

- TX, TXV and Space Level Screening

**1 AMP
50-1200 VOLTS
30 nsec
HYPER FAST
RECTIFIER**

**SURFACE MOUNT
SQUARE TAB**



MAXIMUM RATINGS

RATING		SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	SDR1AHFSMS	VRRM	50	Volts
	SDR1BHFSMS		100	
	SDR1DHFSMS		200	
	SDR1GHFSMS	VRWM	400	
	SDR1JHFSMS		600	
	SDR1KHFSMS	VR	800	
	SDR1MHFSMS		1000	
	SDR1NHFSMS		1200	
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)		Io	1	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	25	Amps
Operating and storage temperature		Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to End Tab		RθJE	28	°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#: RH0119 A

RMD

SDR1AHFSMS thru SDR1NHFSMS

PRELIMINARY



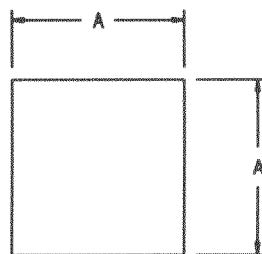
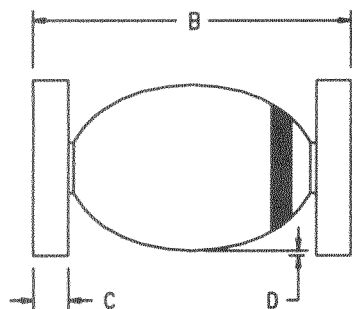
SOLID STATE DEVICES, INC

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 (IF = 1 Adc, TA=25°C, 300μs Pulse)	SDR1AHF-SDR1JHF SDR1KHF-SDR1NHF	VF	3.3 3.5	Vdc
Instantaneous Forward Voltage Drop (IF = 1 Adc, TA= - 55°C, 300μs Pulse)	SDR1AHF-SDR1JHF SDR1KHF-SDR1NHF	VF	3.4 3.6	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	20	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)		trr	30	nsec

CASE OUTLINE:



DIMENSIONS

DIM	MIN.	MAX.
A	.127"	.140"
B	.200"	.280"
C	.022"	.028"
D	.002"	----

TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

