

**SRM1HFSMS
thru
SRM2HFSMS**

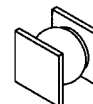
Designer's Data Sheet

FEATURES:

- Replaces D0-4 and D0-5 (1N5816, 1N6306)
- High Current Version of 1N5811
- Hyper Fast Recovery
- PIV to 200 Volts
- Low Reverse Leakage Current
- Hermetically Sealed Void-Free Construction *
- Monolithic Single Chip Construction
- High Surge Rating
- Low Thermal Resistance
- Available in Axial Lead Versions
- Equivalent to 1N6686US-1N6687US
- TX, TXV, and Space Level Screening Available

**20 AMP
100-200 VOLTS
40 nsec
HYPER FAST
RECTIFIER**

SURFACE MOUNT



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SRM1HFSMS SRM2HFSMS	VRRM	100	Volts
	VRWM	200	
	VR		
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	20	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	375	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to End Tab	RθJE	3.5	°C/W

* PIND Testing not required on Void Free devices per MIL-S-19500

NOTE: All specifications are subject to change without notification.
SSD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET#:RH0163 E

RMD

SRM1HFSMS thru SRM2HFSMS

PRELIMINARY



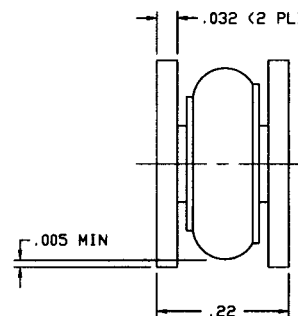
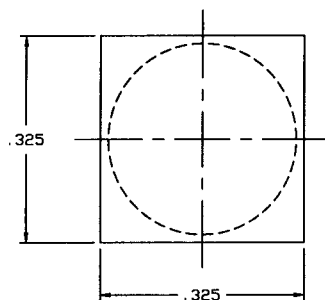
SOLID STATE DEVICES, INC

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 = 20 Adc, TA=25°C, 300μs Pulse)	VF	0.875	Vdc
Instantaneous Forward Voltage Drop (IF = 20 Adc, TA= - 65°C, 300μs Pulse)	VF	1.15	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300μs pulse minimum)	IR	50	μA
Reverse Leakage Current (Rated VR, TA=100°C, 300μs pulse minimum)	IR	10	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	350	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	trr	40	nsec

CASE OUTLINE: SURFACE MOUNT SQUARE TAB



TOLERANCES
(UNLESS SPECIFIED)
.XX ±.03
.XXX ±.010

CATHODE INDICATED BY DOT

TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

