

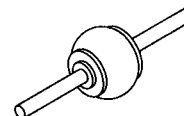


PRELIMINARY

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:**

- Replaces DO-4 and DO-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 Surface Mount Versions
- Equivalent to 1N6686-1N6687
- TX, TXV, and Space Level Screening Available

**SRM1HF
thru
SRM2HF****20 AMP
100-200 VOLTS
40 nsec
HYPER FAST
RECTIFIER****AXIAL****MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SRM1HF SRM2HF	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 Lead, L=3/8"	RθJL	4	°C/W

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

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.**DATA SHEET#:RH0161 E****RMD**

SRM1HF thru SRM2HF

PRELIMINARY



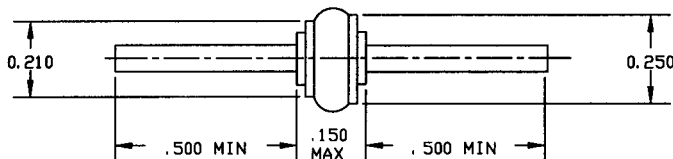
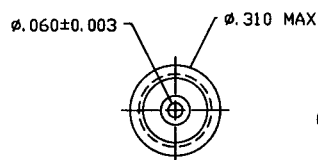
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ELECTRICAL CHARACTERISTICS

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: AXIAL



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

TYPICAL OPERATING CURVES

TA = 25°C Unless otherwise specified

