



PRELIMINARY

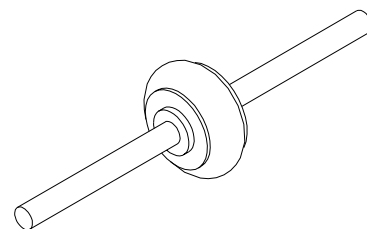
SOLID STATE DEVICES, INC.

14830 Valley View Blvd * La Mirada, Ca 90638

Phone: (562) 404-7855 * Fax: (562) 404-1773

Designer's Data Sheet**FEATURES:**

- Replaces DO-4 or DO-5
- Standard Recovery: 5 μ sec maximum
- PIV to 1000 Volts
- Low Reverse Leakage Current
- Hermetically Sealed Void-Free Construction ^{1/}
- Monolithic Single Chip Construction
- High Surge Rating
- Low Thermal Resistance
- Available in Surface Mount Version
- Equivalent to 5961-94022.
- TX, TXV and Space Level Screening Available

^{1/} PIND Testing not required on Void-Free Devices per MIL-PRF-19500**SRM5
thru
SRM10****20 AMP
500 - 1000 VOLTS
5 μ sec
STANDARD RECOVERY
RECTIFIER****AXIAL**

Maximum Ratings		SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	SRM5	V_{RRM} V_{RWM} V_R	500	Volts
	SRM6		600	
	SRM7		700	
	SRM8		800	
	SRM9		900	
	SRM10		1000	
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, $T_A = 25^\circ\text{C}$)		I_o	20	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on I_o , allow junction to reach equilibrium between pulses, $T_A = 25^\circ\text{C}$)		I_{FSM}	375	Amps
Operating and Storage Temperature		Top & Tstg	-65 TO +175	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Lead, $L = 3/8"$		$R_{\theta JL}$	3	$^\circ\text{C/W}$

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

DATA SHEET #: RC0046E

SRM5 thru SRM10

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Electrical Characteristics		SYMBOL	MAXIMUM	UNITS
Instantaneous Forward Voltage Drop ($I_F = 20A_{DC}$, $T_A = 25^\circ C$, 300 μ sec min pulse) $T_A = -55^\circ C$		V_{F1} V_{F2}	1.05 1.15	V_{DC}
Reverse Leakage Current (Rated V_R , 300 μ sec min pulse) $T_A = 25^\circ C$ $T_A = 100^\circ C$		I_{R1} I_{R2}	2.0 500	μA
Junction Capacitance ($V_R = 10V_{DC}$, $T_A = 25^\circ C$, $f = 1MHz$)		C_J	250	pF
Reverse Recovery Time ($I_F = 500$ mA, $I_R = 1$ A, $I_{RR} = 250$ mA, $T_A = 25^\circ C$)		t_{RR}	5	μ sec

CASE OUTLINE: AXIAL

