



Solid State Devices, Inc.

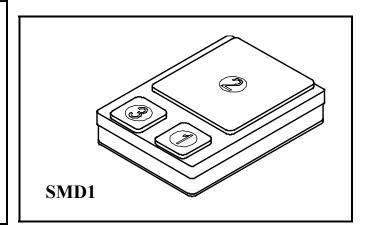
14701 Firestone Blvd * La Mirada, Ca 90638 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

Designer's Data Sheet

FEATURES:

- PIV: 100 Volts
- Low Forward Voltage Drop
- Low Reverse Leakage
- Hermetically Sealed Power Surface Mount Package
- Guard Ring for Overvoltage Protection
- Eutectic Die Attach
- 175°C Operating Junction Temperature
- TX, TXV, or Space Level Screening Available

20 AMP 100 VOLTS SCHOTTKY RECTIFIER



MAXIMUM RATINGS			
RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage SSR2010	$ m V_{RRM}$ $ m V_{RWM}$	100	Volts
	$ m V_R$		
Average Rectified Output Current ^{1/} (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I_0	20	Amps
Peak Surge Current ^{1/2} (8.3 ms Pulse, Half Sine Wave superimposed on I _O , allow junction to reach equilibrium between pulses, TA=25 °C)	I _{FSM}	300	Amps
Operating and Storage Temperature	T _{OP} & T _{STG}	-65 to +175	°C
Maximum Thermal Resistance ^{1/} Junction to Case	$R_{ m 0JC}$	0.8	°C/W

Notes: 1/ Both Anode Terminals (1, 3) Tied Together.





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ELECTRICAL CHARACTERISTICS (Per Leg)				
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT	
Instantaneous Forward Voltage Drop (I _F = 10 Adc, T _A = 25 °C, Pulse) (I _F = 15 Adc, T _A = 25 °C, Pulse) (I _F = 20 Adc, T _A = 25 °C, Pulse)	$ m V_{F1}$	0.68 0.72 0.75	Vdc	
Instantaneous Forward Voltage Drop (I _F = 10 Adc, T _A = -55 °C, Pulse)	$ m V_{F2}$	0.75	Vdc	
Reverse Leakage Current (Rated V_R , $T_A = 25^{\circ}C$, Pulse)	I_{R1}	200	μΑ	
Reverse Leakage Current (Rated V_R , $T_A = 100^{\circ}$ C, Pulse)	I_{R2}	10	mA	
Junction Capacitance (V _R = 10 Vdc, T _A = 25 °C, f = 1 MHz)	$C_{\mathbf{J}}$	800	pF	

