



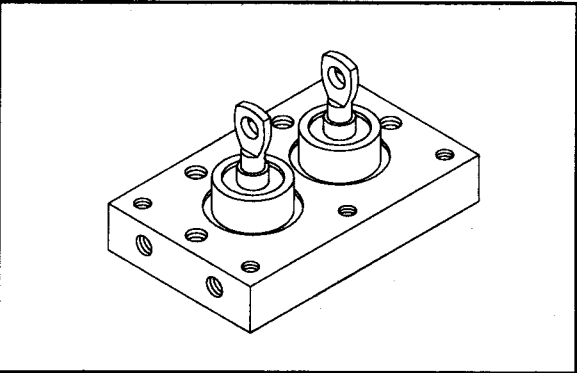
PRELIMINARY

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638  
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

**SDA48**

**150 AMPS  
50 VOLTS  
MATCHED POWER  
SCHOTTKY  
DIODE ARRAY**



**Designer's Data Sheet**

**FEATURES:**

- Each diode is VF matched to within 20mV of other diodes in array
- Hermetically sealed Schottky diode cells
- Hot carrier copper heat sinking mounting bracket
- Number and configuration of diodes can be customized
- TX, TXV and Space Level screening

**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM	50	Volts
	VRWM		
	VR		
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	150	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	1000	Amps
Operating and storage temperature	Top & Tstg	-65 to +150	°C
Maximum Thermal Resistance Junction to Case	RθJC	0.8	°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#: RS0217 A**

**RMD**

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**ELECTRICAL CHARACTERISTICS**

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
<b>Instantaneous Forward Voltage Drop</b> (IF = 40 Adc, TA=25°C, 300µs Pulse)	<b>VF</b>	0.55	Vdc
<b>Instantaneous Forward Voltage Drop</b> (IF = 40 Adc, TA= - 55°C, 300µs Pulse)	<b>VF</b>	0.58	Vdc
<b>Reverse Leakage Current</b> (Rated VR, TA=25°C, 300µs pulse minimum)	<b>IR</b>	20	mA
<b>Reverse Leakage Current</b> (Rated VR, TA=100°C, 300µs pulse minimum)	<b>IR</b>	60	mA
<b>Junction Capacitance</b> (VR = 10 Vdc, TA=25°C, f= 1 MHz )	<b>CJ</b>	3000	pf

**CASE OUTLINE:**

