



PRELIMINARY

SOLID STATE DEVICES, INC

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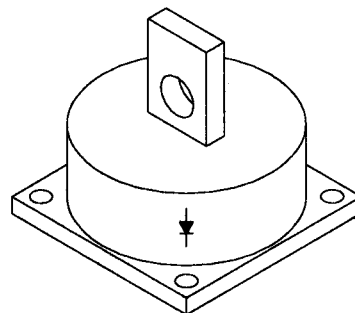
SDA46

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

**300 AMPS
30 VOLTS
POWER SCHOTTKY
DIODE ASSEMBLY**



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM VRWM VR	30	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	300	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	1200	Amps
Operating and storage temperature	Top & Tstg	-65 to +125	°C
Maximum Thermal Resistance Junction to Case	RθJC	0.25	°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#: RS0219 A

RMD

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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 300 \text{ A}_{dc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	V_F	0.65	V _{dc}
Instantaneous Forward Voltage Drop ($I_F = 300 \text{ A}_{dc}$, $T_A = -55^\circ\text{C}$, 300 μs Pulse)	V_F	0.69	V _{dc}
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μs pulse minimum)	I_R	300	mA
Reverse Leakage Current (Rated V_R , $T_A = 85^\circ\text{C}$, 300 μs pulse minimum)	I_R	2.5	A
Junction Capacitance ($V_R = 10 \text{ V}_{dc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$)	C_J	3000	pf

CASE OUTLINE:

