PRELIMINARY

SDA46

SOLID STATE DEVICES, INC

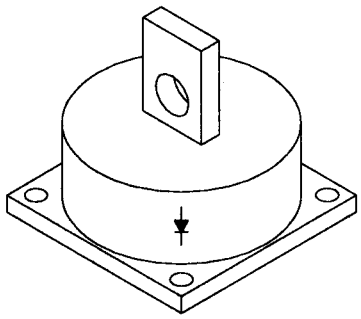
14849 Firestone Boulevard · La Mirada,CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

Designer's Data Sheet

300 AMPS
30 VOLTS
POWER SCHOTTKY
DIODE ASSEMBLY

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	V_{RRM} V_{RWM} V_R	30	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I_O	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)	I_{FSM}	1200	Amps
Operating and storage temperature	Top & Tstg	-65 to +125	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	0.25	°C/W

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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (I_F = 300 Adc, T_A=25°C, 300µs Pulse)	V_F	0.65	Vdc
Instantaneous Forward Voltage Drop (I_F = 300 Adc, T_A= - 55°C, 300µs Pulse)	V_F	0.69	Vdc
Reverse Leakage Current (Rated VR, T_A=25°C, 300µs pulse minimum)	I_R	300	mA
Reverse Leakage Current (Rated V_R, T_A=85°C, 300µs pulse minimum)	I_R	2.5	A
Junction Capacitance (V_R = 10 Vdc, T_A=25°C, f= 1 MHz)	CJ	3000	pf

CASE OUTLINE:

