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

SDA47

Designer's Data Sheet

Part Number / Ordering Information[1/]

SDA47 _ **Screening**[2/]

_ = Not Screened
TX = TX Level
TXV = TXV Level
S = S Level

600 AMP MATCHED POWER SCHOTTKY DIODE ARRAY
35 VOLTS

FEATURES:

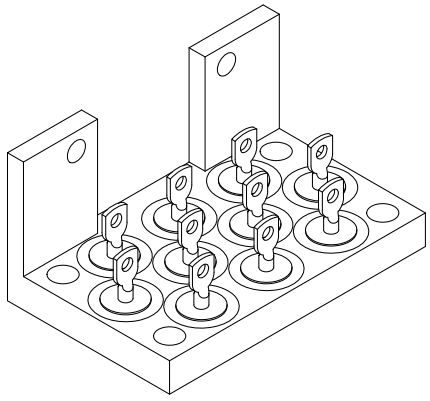
- Each diode is VF matched to within 20mV of each other
- Hermetically sealed Schottky diode cells
- Hot carrier copper heat sinking mounting bracket
- Number and configuration of diodes can be customized
- TX, TXV, and S level screening available - consult factory

MAXIMUM RATINGS[3/]	Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage[4/]	V_{RRM} V_{RWM} V_R	35	V
Average Rectified Forward Current (Resistive load, 60 Hz, sine wave, T_A = 25ºC)	I_O	600	A
Peak Surge Current (8.3 ms pulse, half sine wave superimposed on I_O, allow junction to reach equilibrium between pulses, T_A = 25ºC)[4/]	I_{FSM}	800	A
Operating & Storage Temperature	T_{OP} & T_{stg}	-65 to +150	ºC
Maximum Thermal Resistance (Junction to Case)	$R_{\theta JC}$	1.0	ºC/W

NOTES:

1/ For ordering information, price, and availability - contact factory.
2/ Screening based on MIL-PRF-19500. Screening flows available on request.
3/ Unless otherwise specified, all electrical characteristics @25ºC.
4/ Per diode.

SDA47



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

SDA47

ELECTRICAL CHARACTERISTICS (per diode)[3/]	Symbol	Max	Units
Instantaneous Forward Voltage Drop (I_F = 50 A, T_A = 25ºC, 300µsec pulse)	V_{F1}	0.6	V
Instantaneous Forward Voltage Drop (I_F = 50 A, T_A = -55ºC, 300µsec pulse)	V_{F2}	0.7	V
Reverse Leakage Current (Rated V_R, T_A = 25ºC, 300µsec pulse minimum)	I_{R1}	50	mA
Reverse Leakage Current (Rated V_R, T_A = 100ºC, 300µsec pulse minimum)	I_{R2}	250	mA
Junction Capacitance (V_R = 10V, f = 1MHz, T_A = 25ºC)	C_J	3000	pF

Case Outline: