



PRELIMINARY

## SOLID STATE DEVICES, INC.

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### DESIGNER'S DATA SHEET

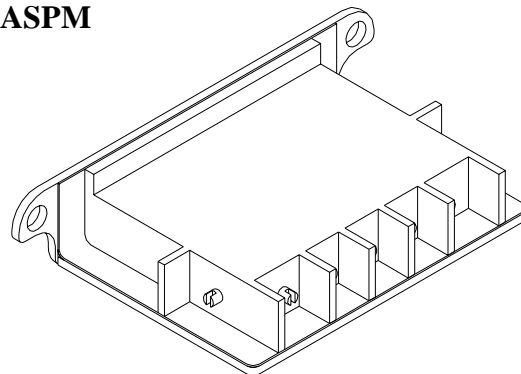
#### FEATURES:

- Aerospace High Voltage Power Supply Applications.
- High Blocking Voltage - 18kV minimum.
- Low Mechanical Stress Design.
- Excellent Thermal Management - 2.5°C/W.
- TX, TXV, and Space Level Screening Available.
- Consult Factory for:
  - Higher Blocking Voltages;
  - Faster Switching Speeds;
  - Other Electrical Configurations.

**SDA475-02**

**3 AMP/18,000 VOLTS  
HIGH VOLTAGE  
MULTIPLIER RECTIFIER STACK**

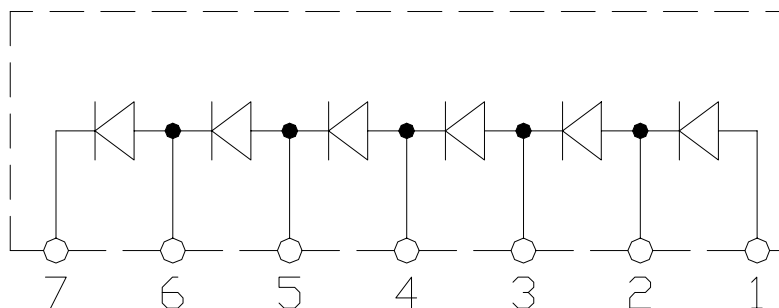
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### MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage (each rectifier)	$V_{RM}$ $V_{RWM}$ $V_R$	6,000	Volts
Average Rectified Forward Current (Non-repetitive, $t = 8.3$ ms Pulse)	$I_O$	3	Amps
Peak Surge Current (Non-repetitive, $t = 8.3$ ms Pulse, $T_A = 25^\circ\text{C}$ )	$I_{FSM}$	25	Amps
Operating Temperature Range	$T_{OP}$	-65 TO +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 TO +150	$^\circ\text{C}$
Thermal Resistance, Junction to Base	$\Theta_{JB}$	2.5	$^\circ\text{C/W}$

### ELECTRICAL SCHEMATIC



**NOTE:** All specifications are subject to change without notification.  
SCD's for these devices should be reviewed by SSDI prior to release.

**DATA SHEET #: PM0005A**

