



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

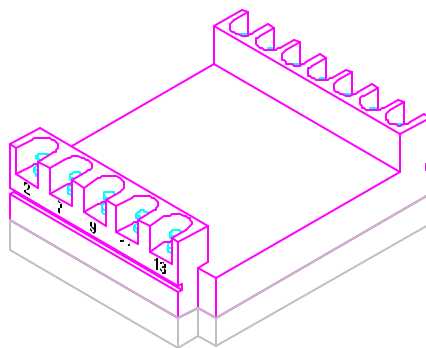
Designer's Data Sheet

FEATURES:

- 100kHz Operation
- Airborne Application up to 50,000 ft
- High Efficiency
- Low EMI / Corona Discharge
- Thermally Conductive Aluminum Base Plate
- Helicoil Mounting Inserts
- ESS Screening Available. Consult Factory.
- Exterior Surfaces Sandblasted to Promote Adhesion of Encapsulation in Subsequent Assembly

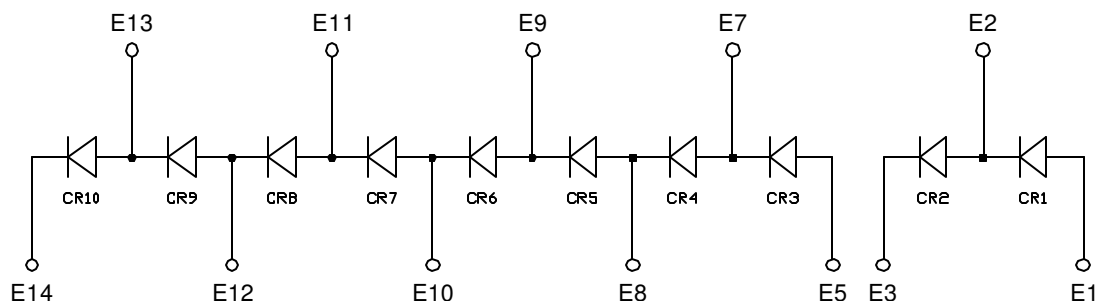
SPA548-01

HIGH VOLTAGE DIODE BRIDGE ASSEMBLY 5.5 kV / 2A



MAXIMUM RATINGS (Per Leg, Unless Otherwise Specified)	Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	V_{RRM} V_R	2,000	Volts
Half Wave Rectified Forward Current Averaged Over Fully Cycle (Resistive Load, 60 Hz, Sine Wave, $T_C = 25^\circ\text{C}$)	I_O	2.0	Amps
Peak Surge Current ($T_C = 55^\circ\text{C}$, 8.3 ms Pulse, Superimposed on Rated Current at Rated Voltage)	I_{FSM}	20	Amps
Maximum Individual Partial Discharge ($V = 8\text{kV}$, $t = 1\text{min}$, All Terminals in Common to Base)		10	pC
Maximum Dielectric Voltage	V_{DIEL}	8,000	Volts
Operating Temperature Range (Base plate)	$T_{OP\text{ BASE}}$	-45 to +100	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$
Maximum Thermal Resistance (Per Diode) Junction to Case	$R_{\theta JC}$	15	$^\circ\text{C/W}$

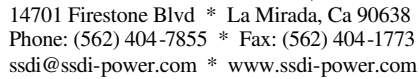
Electrical Schematic



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

DATA SHEET #: PM0022B

DOC



DOC