Solid State Devices, Inc.
14830 Valley View Blvd * La Mirada, Ca 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773
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SDA113 Series

DESIGNER'S DATA SHEET

7.5 A / 1000V THREE PHASE BRIDGE RECTIFIER ASSEMBLY

Part Number / Ordering Information [1/]

SDA113 ___ ___ ___

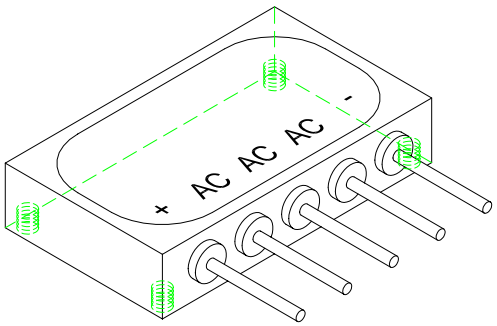
- **Lead Bend** [3/]: ___ = Straight Leads; UB = Up Bend; DB = Down Bend
- **Terminals** [2/ 3/]: L = Copper Leads; _ = Turret Terminals
- **Voltage**: A = 50 V; B = 100 V; C = 200 V; D = 400 V; E = 600 V; F = 800 V; G = 1000 V

Features:

- **Higher Blocking Voltage Available. Contact Factory.**
- **High Output Current 7.5 Amps**
- **Low Reverse Leakage Current**
- **Constructed with Void-free, Hermetically Sealed Discretes**
- **Aluminum Case for Maximum Thermal Conductivity**
- **Small Package Size (1.500 x 0.875 x 0.310")**
- **TX and TXV & S Level Screening Available**
- **Fast, Ultra Fast, & Hyper Fast Versions Available. Contact Factory.**

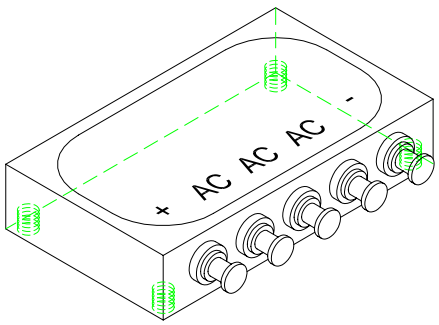
Maximum Ratings		Symbol	Value	Units
Peak Repetitive and Peak Surge Reverse Voltage		V_{RRM} V_{RSM} V_R	See Voltage Key	Volts
Average Rectified Forward Current [4/] (Resistive Load, 60 Hz Sine Wave)	T_C = 55°C T_C = 100°C	Io	7.5 5.5	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, T_A = 25 °C, per leg)		I_{FSM}	50	Amps
Operating & Storage Temperature		T_{op} & T_{stg}	-55 to +150	°C
Maximum Thermal Resistance, Junction to Case		$R_{\theta JC}$	4.5	°C/W

SDA113 (L)



Lead Dia = .050" Lead Length = 0.5" min

SDA113



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RA0047A	DOC

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Electrical Characteristic 5/		Symbol	Min	Typ	Max	Units
Instantaneous Forward Voltage Drop (T_A = 25°C, 300 - 500 µsec pulse)	I_F = 3A	V_{F1}	—	—	1.1	**Volts**
Reverse Leakage Current (Rated V_R, T_A = 25ºC, 300 µsec pulse minimum)		I_{R1}	—	—	5	**µA**
Reverse Leakage Current (Rated V_R, T_A = 100ºC, 300 µsec pulse minimum)		I_{R2}	—	—	50	**µA**

NOTES:

* Pulse Test: Pulse Width = 300µsec, Duty Cycle = 2%

1/ For Ordering Information, Price, and Availability Contact Factory.

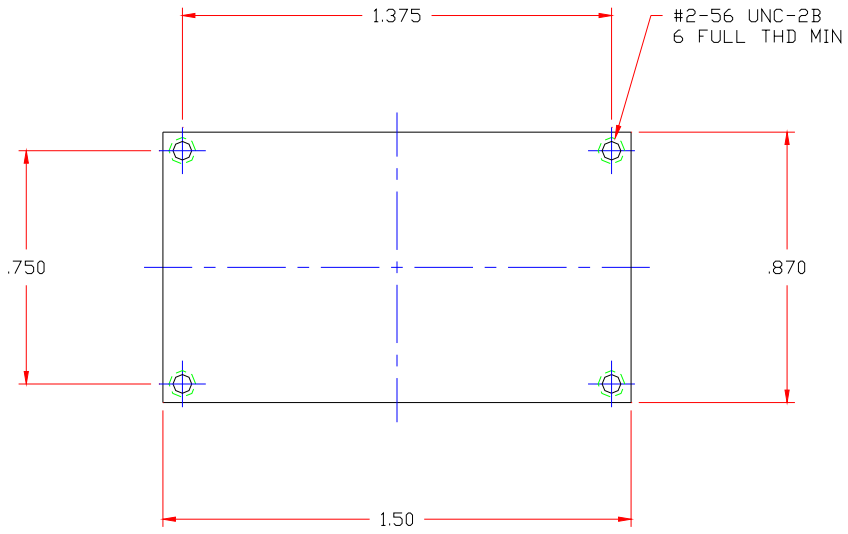
2/ For Package Outlines Contact Factory.

3/ Up and Down Bend Configurations are Available for '__' (Leaded) Packages Only.

4/ Derate Linearly at 0.28A/ºC for T_C > 55ºC.

5/ Unless Otherwise Specified, All Electrical Characteristics @25ºC.

Mounting Diagram: 2/



Thickness = 0.340" max