



Solid State Devices, Inc.

14830 Valley View 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

Part Number / Ordering Information ^{1/}

SDA116

- - - **Lead Bend** ^{3/} - = Straight Leads
 UB = Up Bend
 DB = Down Bend

+ **Terminals** ^{2/3/} L = Copper Leads
 - = Turret Terminals

+ **Voltage** J = 600 V
 K = 800 V
 M = 1000 V

SDA116 Series

25A / 1000V

THREE PHASE BRIDGE

RECTIFIER ASSEMBLY

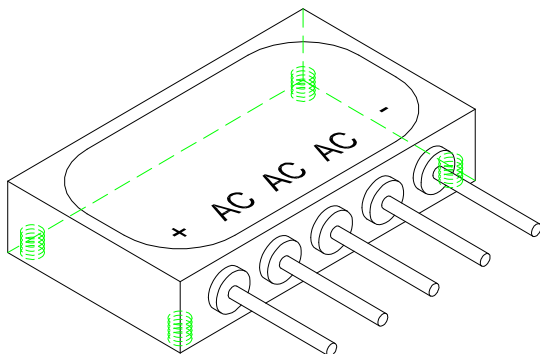
ULTRA FAST – 70 ns

Features:

- Higher Blocking Voltage Available. Contact Factory.
- Average Output Current 25 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
- Standard, Fast, & Hyper Fast Versions Available. Contact Factory.

Maximum Ratings		Symbol	Value	Units
Peak Repetitive and Peak Surge Reverse Voltage	SDA116J SDA116K SDA116M	V_{RRM} V_{RSM} V_R	600 800 1000	Volts
Average Rectified Forward Current ^{4/} (Resistive Load, 60 Hz Sine Wave)	$T_C = 55^{\circ}\text{C}$	I_o	25	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^{\circ}\text{C}$, per leg)		I_{FSM}	125	Amps
Operating & Storage Temperature		T_{op} & T_{stg}	-55 to +150	$^{\circ}\text{C}$
Maximum Thermal Resistance, Junction to Case		R_{qJC}	2.5	$^{\circ}\text{C/W}$

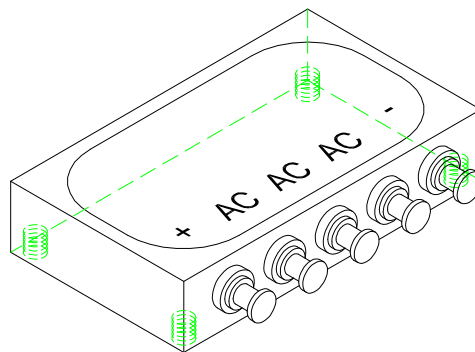
SDA116 (L)



Lead Dia = .050"

Lead Length = 0.5" min

SDA116 (_)



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

DATA SHEET #: RA0046A

DOC



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SDA116 Series

Electrical Characteristic ^{5/}		Symbol	Min	Typ	Max	Units
Instantaneous Forward Voltage Drop (T _A = 25°C, pulsed) (T _A = 25°C, pulsed) (T _A = -55°C, pulsed)	I _F = 3A	V_{F1}	—	—	1.40	Volts
	I _F = 9A		—	—	1.75	
	I _F = 9A		—	—	1.95	
	I _F = 9A		—	—	1.95	
Reverse Leakage Current (Rated V _R , T _A = 25°C, pulsed)		I_{R1}	—	—	25	mA
Reverse Leakage Current (Rated V _R , T _A = 100°C, pulsed)		I_{R2}	—	—	500	mA
Reverse Recovery Time (I _F = 500 mA, I _R = 1 A, I _{RR} = 250 mA T _A = 25°C)		t_{rr}	—	—	70	ns

NOTES:

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 0.26 A/°C for T_C > 55°C.

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

Mounting Diagram: ^{2/}

