Solid State Devices, Inc.
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Phone: (562) 404-7855 * Fax: (562) 404-1773
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SDA188A – SDA188G Series

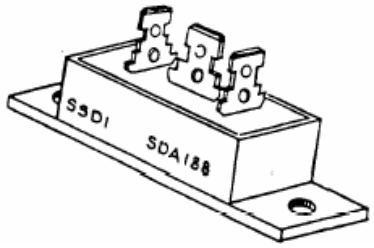
Designer's Data Sheet

FEATURES:

- Average Output Current 50 Amps
- PIV 50 to 1000 Volts
- Maximum Thermal Resistance 0.5 °C/Watt
- 500 Amp Surge Capability
- Hermetically Sealed
- Choice of Three Terminal Configurations
- For Ordering Information, Price, and Availability Contact Factory.

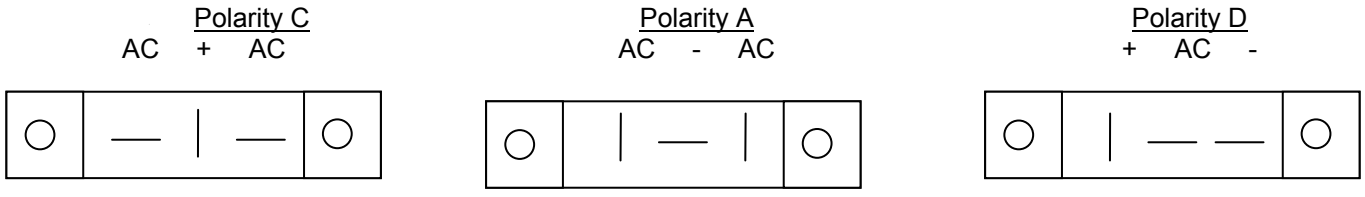
SSDI introduces a complete series of Doublers and Center Tap Rectifier Circuits. Designed in cast aluminum cases to provide maximum thermal conductivity and simple installation.

50 AMPS
50 – 1000 VOLTS
RECTIFIER ASSEMBLY



Maximum Ratings		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SDA188_A	V_{RRM}	50	**Volts**
	SDA188_B		100	
	SDA188_C	V_{RWM}	200	
	SDA188_D		400	
	SDA188_E		600	
	SDA188_F	V_R	800	
	SDA188_G		1000	
Average DC Output Current Tc = Case Temp =55°C		$I_{O\,(DC)}$	See table	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)		I_{FSM}	500	**Amps**
Operating and Storage Temperature		T_{OP} & Tstg	-55 to +150	**°C**
Maximum Thermal Resistance Junction to Case		$R_{\theta JC}$	0.5	**°C/W**

Polarity and Terminal Orientation [4]



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

DATA SHEET #: RA0035B

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ELECTRICAL CHARACTERISTICS 1/, 2/

Part # 4	Peak Inverse Voltage	Sine Wave RMS Input Voltage Max.	Average DC Output Current TC=Case Temp			Peak Surge Current (1 Cycle)	Peak Forward Current	Maximum Forward Voltage @ 25 $A_{(DC)}$	Maximum Reverse Current	
Symbol	**PIV**		**$I_{O\ (DC)}$**			**I_{FSM}**	**I_F**	**V_F**	**I_R @ PIV**	
Units	**Volts 3/**	**Volts**	**Amps**			**Amps**	**Amps**	**Volts**	**µA**	
Conditions			55°C	100°C	125°C				25 °C	100°C
SDA188_A	50	35	50	33	16	500	200	1.05	1.0	100
SDA188_B	100	70	50	33	16	500	200	1.05	1.0	100
SDA188_C	200	140	50	33	16	500	200	1.05	1.0	100
SDA188_D	400	280	50	33	16	500	200	1.05	1.0	100
SDA188_E	600	420	50	33	16	500	200	1.05	1.0	100
SDA188_F	800	560	50	33	16	500	200	1.05	1.0	100
SDA188_G	1000	700	50	33	16	500	200	1.05	1.0	100

NOTES:

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

*For information on curves, contact the Factory Representative for Engineering Assistance.

1/ Unless Otherwise Specified, All Electrical Characteristics Per Leg

2/ Unless Otherwise Specified, All Electrical Characteristics @25ºC

3/ Higher Voltages Are Available. Contact Factory.

4/ Polarity Code precedes voltage code i.e. SDA188CG is a common cathode, 1000 V part

