



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
 Phone: (562) 404-4474 * Fax: (562) 404-1773
 ssdi@ssdi-power.com * www.ssdi-power.com

SDA168H thru SDA168N

HIGH RELIABILITY

5.0 AMP, 1000 – 5000 VOLTS

STANDARD RECOVERY

THREE PHASE BRIDGE RECTIFIER

Designer's Data Sheet

Part Number/Ordering Information ^{1/}

SDA168 — —

^{2/} Screening

— = Not Screened
 TX = TX Level
 TXV = TXV
 S = S Level

Peak Inverse Voltage

H = 1,000 V, I = 1,500 V, J = 2,000 V,
 K = 2,500 V, L = 3,000 V, M = 4,000 V,
 N = 5,000 V

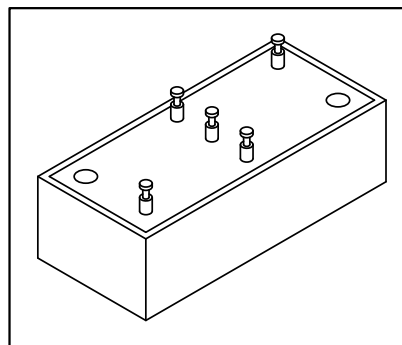
FEATURES:

- Average Output Current 5.0 Amps @ 55°C
- PIV 1000 to 5000 Volts Per Leg
- Hermetically Sealed Diode Cells
- Avalanche Rated
- Encapsulated Epoxy Case
- Insulated Electrical Connections
- Small Size
- Mounting Holes for Ease of Installation
- Available in Fast, Ultra Fast, and Hyper Fast Recovery Times
- TX, TXV, or S-Level Screening Available

ELECTRICAL CHARACTERISTICS ^{3/}

Part Number	Peak Inverse Voltage (per leg)	Sine Wave RMS Input Voltage Max.	Reverse ^{4/} Recovery Time	Average DC Output Current T _C =Case Temp			Average DC Output Current T _A = Ambient Temp (no heat sink)			Peak Forward Surge Current (1 Cycle)	Peak Repetitive Forward Current	Maximum Forward Voltage (per leg) @ 3 ADC	Maximum Reverse Current (per leg) @ PIV	
Symbol	PIV	V _r	T _{rr}	I _F (AV)			I _F (AV)			I _{FSM}	I _{FRM}	V _F	I _R	
Units	Volts	Volts	μs	Amps			Amps			Amps	Amps	Volts	μA	
Conditions			Max	55°C	100°C	125°C	25°C	55°C	100°C				25°C	100°C
SDA168H	1000	707	5	5.0	3.5	2.0	3.0	2.0	1.5	150	75	1.1	5	50
SDA168I	1500	1060	5	5.0	3.5	2.0	3.0	2.0	1.5	150	75	2.2	5	50
SDA168J	2000	1414	5	5.0	3.5	2.0	3.0	2.0	1.5	150	75	2.2	5	50
SDA168K	2500	1767	5	5.0	3.5	2.0	3.0	2.0	1.5	150	75	3.3	5	50
SDA168L	3000	2121	5	5.0	3.5	2.0	3.0	2.0	1.5	150	75	3.3	5	50
SDA168M ^{5/}	4000	2828	5	5.0	3.5	2.0	3.0	2.0	1.5	150	75	4.4	5	50
SDA168N ^{5/}	5000	3535	5	5.0	3.5	2.0	3.0	2.0	1.5	150	75	5.5	5	50

SDA168 Package:



NOTES:

^{1/} For Ordering Information, Price, and Availability- Contact Factory.

^{2/} Screened to MIL-PRF-19500.

^{3/} Unless Otherwise Specified, All Electrical Characteristics @25°C.

^{4/} Recovery Conditions: I_F = 0.5 Amp, I_R = 1.0 Amp rec. to .25 Amp.

^{5/} Please consult factory for further details on these items.

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

DATA SHEET #: RA0031A

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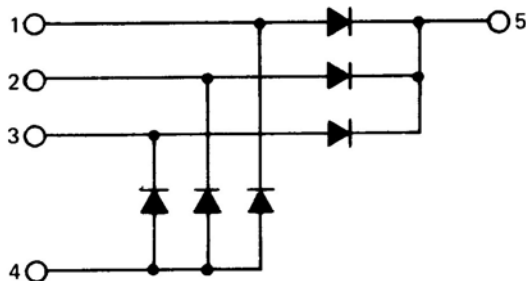
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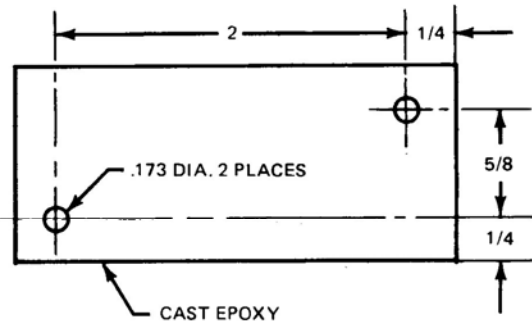
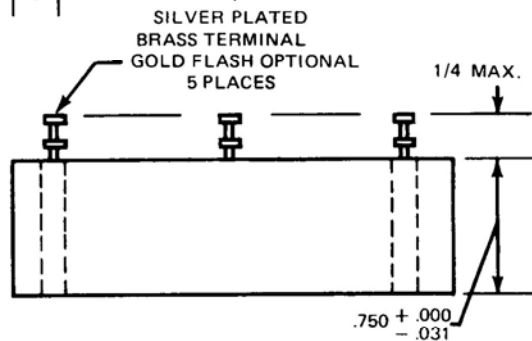
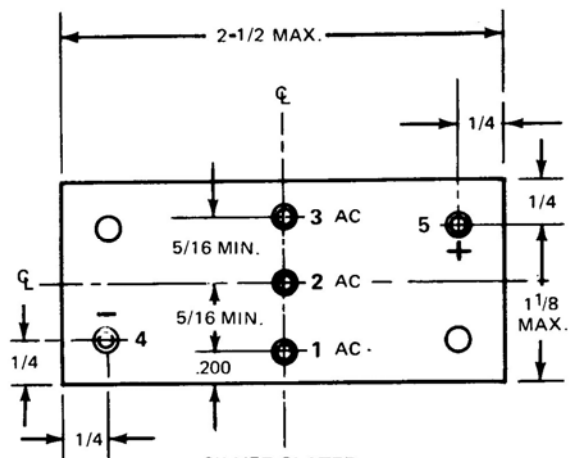
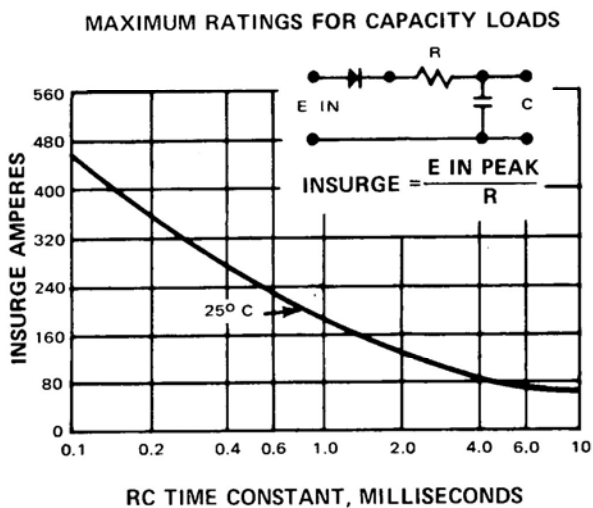
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SCHEMATIC DIAGRAM



TOLERANCE XX[±] .03
xxx[±] .020
FRACTIONAL = NOMINAL DIMENSION

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

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