



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, CA 90638
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SDA5000HF thru SDA22000HF

Designer's Data Sheet

Part Number/Ordering Information ^{1/}

SDA

HF

Screening ^{2/}

— = Not Screened

TX = TX Level

TXV = TXV

S = S Level

Voltage/Family

5000 = 5000V

8000 = 8000V

10000 = 10000V

12500 = 12500V

15000 = 15000V

19000 = 19000V

22000 = 22000V

30 nsec

0.5 AMPS

**5,000 – 22,000 VOLTS
HIGH VOLTAGE RECTIFIER**

FEATURES:

- Average output current: 0.5 Amps
- PIV: 5,000 to 22,000 Volts
- Low reverse leakage
- Low distributed and GRD capacitance
- Corona free
- Superior thermal shock resistance
- Also available in Fast, Ultra Fast, and Standard versions - consult factory
- TX, TXV, and S level screening available

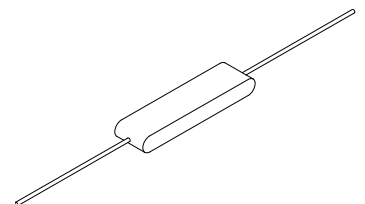
ELECTRICAL CHARACTERISTICS

Part Number	Peak Inverse Voltage (per leg)	Average DC Output Current T _C = Case Temp		Reverse Recovery Time	Maximum Surge Current (1 Cycle)	Maximum Forward Voltage (per leg)	Maximum Reverse Current (per leg) @ PIV		Case Size		
Symbol	PIV	I _F (AV)		t _{rr}	I _{FRM}	V _F	I _R				
Units	Volts	Amps		ns	Amps	Volts	µA		INCHES		
Conditions		55°C	100°C		25°C	I _F = 500 mA	25°C	100°C	A	B	C
SDA5000	5000	0.5	0.33	30	25	14	10	200	1.125	0.25	0.50
SDA8000	8000	0.5	0.33	30	25	20	10	200	1.165	0.25	0.50
SDA10000	10000	0.5	0.33	30	25	26	10	200	2.000	0.25	0.50
SDA12500	12500	0.5	0.33	30	25	32	10	200	2.375	0.25	0.50
SDA15000	15000	0.5	0.33	30	25	38	10	200	2.750	0.25	0.50
SDA19000	19000	0.5	0.33	30	25	48	10	200	3.500	0.25	0.50
SDA22000	22000	0.5	0.33	30	25	56	10	200	4.250	0.25	0.50

NOTES:

1. Maximum forward voltage measured with instantaneous forward pulse of 300 µsec minimum.
2. Unless otherwise specified, all electrical characteristics @25°C
3. Reverse Recovery Test Conditions: I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A, T_A = 25°C

HV STICK



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

DATA SHEET #: RA0107B

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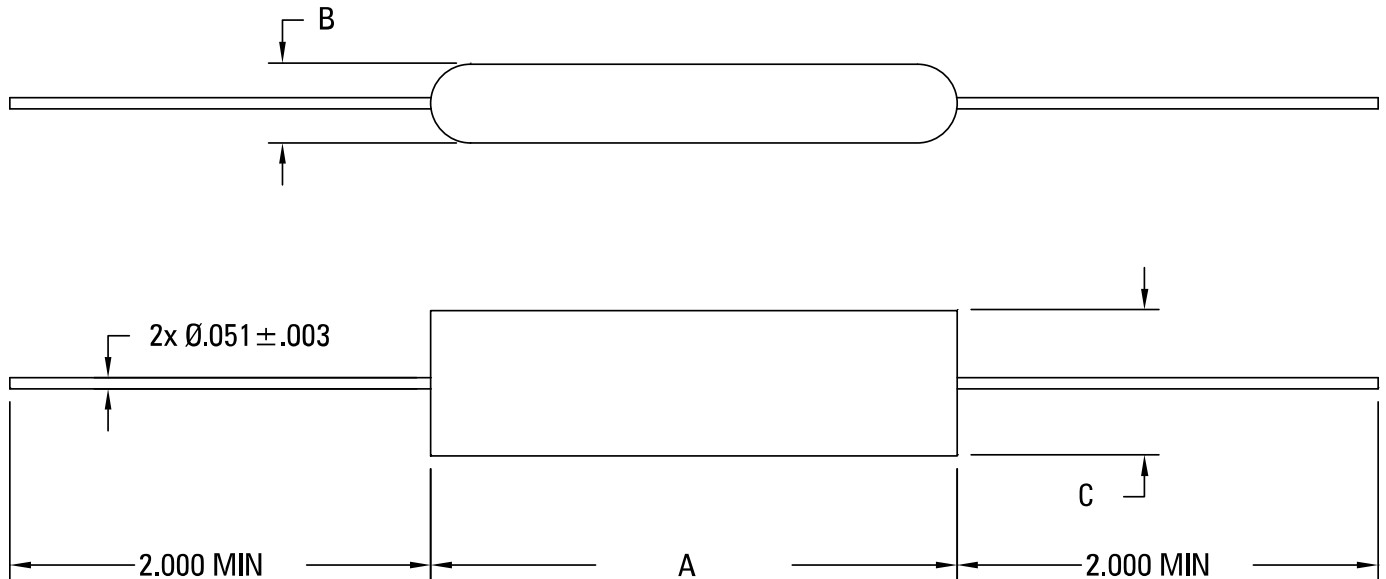
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**SDA5000HF
thru
SDA22000HF**

PACKAGE OUTLINE: SDA5000HF thru SDA22000HF



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

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