Solid State Devices, Inc.
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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

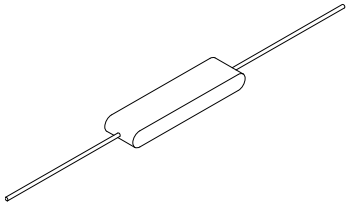
ELECTRICAL CHARACTERISTICS

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 @25ºC
3. Reverse Recovery Test Conditions: I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A, T_A = 25°C

HV STICK

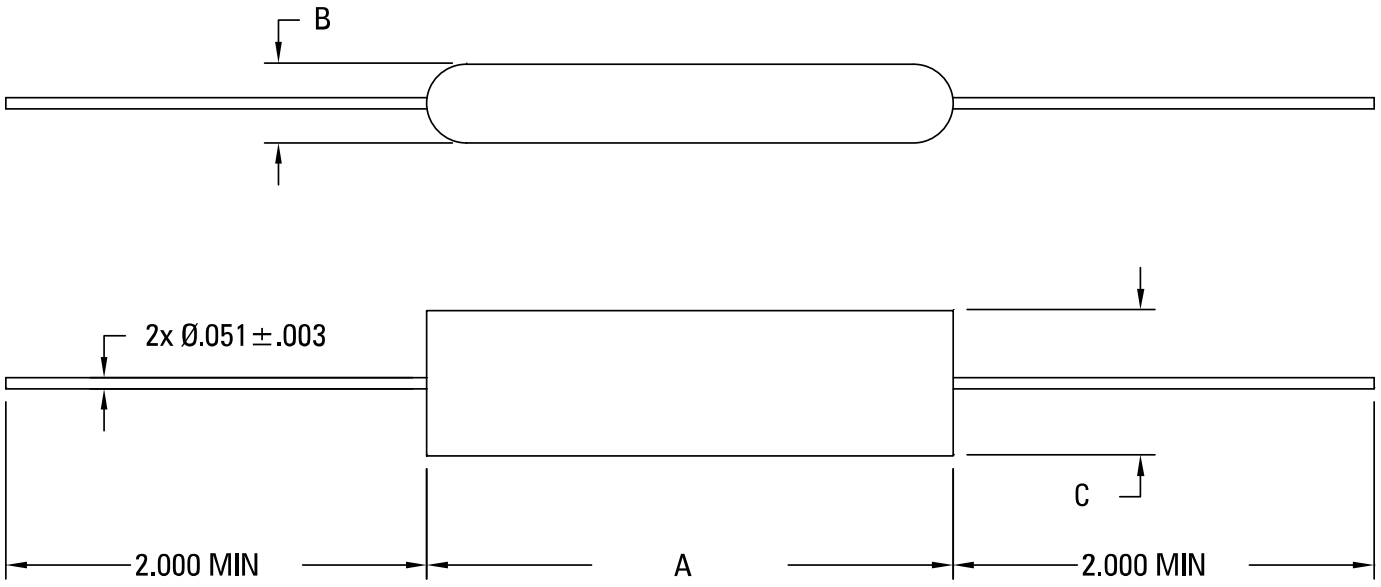


NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	**DATA SHEET #: RA0107B**	**DOC**

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PACKAGE OUTLINE: SDA5000HF thru SDA22000HF



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