Solid State Devices, Inc.
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SDA5000 thru SDA25000

0.5 AMPS 5,000 – 25,000 VOLTS STANDARD RECOVERY HIGH VOLTAGE RECTIFIER

Designer's Data Sheet

Part Number/Ordering Information [1/]

SDA ___ ___

Screening [2/]
__ = Not Screened
TX = TX Level
TXV = TXV
S = S Level

Voltage/Family
5000 = 5000V
7500 = 7500V
10000 = 10000V
12500 = 12500V
15000 = 15000V
20000 = 20000V
25000 = 25000V

FEATURES:
- Average Output Current 0.5 Amps
- PIV 5000 to 25,000 Volts
- Low Reverse Leakage
- Low Distributed and GRD Capacitance
- Corona Free
- Superior Thermal Shock Resistance
- Also available in Fast, Ultra Fast, and Hyper-Fast versions. Consult Factory.
- TX, TXV, and S-Level Screening Available. Consult Factory

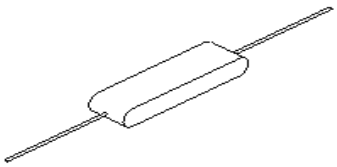
ELECTRICAL CHARACTERISTICS

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		µs	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	5	50	5	1	50	1.125	0.25	0.50
SDA7500	7500	0.5	0.33	5	50	7.5	1	50	1.165	0.25	0.50
SDA10000	10000	0.5	0.33	5	50	10	1	50	2.000	0.25	0.50
SDA12500	12500	0.5	0.33	5	50	12.5	1	50	2.375	0.25	0.50
SDA15000	15000	0.5	0.33	5	50	15	1	50	2.750	0.25	0.50
SDA20000	20000	0.5	0.33	5	50	20	1	50	3.500	0.25	0.50
SDA25000	25000	0.5	0.33	5	50	25	1	50	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

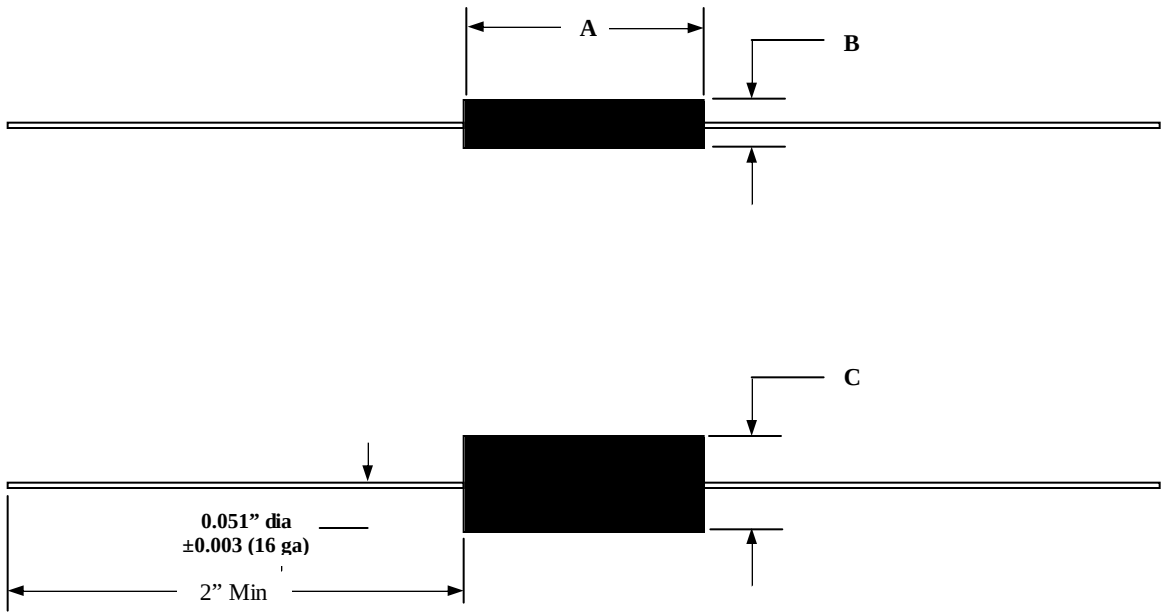


NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	**DATA SHEET #: RC0079A**	**DOC**

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PACKAGE OUTLINE: SDA5000 thru SDA25000



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