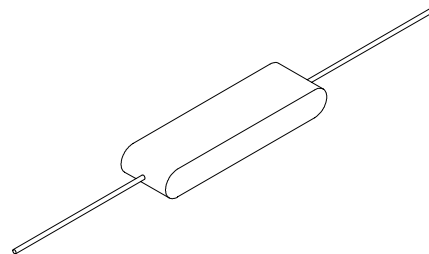




PRELIMINARY

SOLID STATE DEVICES, INC.14830 Valley View Blvd * La Mirada, Ca 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773**Designer's Data Sheet****FEATURES:**

- Average Output Current 0.5Amps
- 2500 to 25000 V Blocking Voltage
- Ultrafast Recovery: 80 nsec Maximum
- Low Reverse Leakage Current
- Corona Free Construction
- Glass Passivated Rectifiers
- Hermetically Sealed Discretes
- Superior Thermal Shock Resistance
- TX and TXV Level Screening Available

SDA2500UF
thru
SDA25000UF
0.5 AMPS
2.5kV thru 25kV
ULTRAFAST RECOVERY
RECTIFIER ASSEMBLY
HV STICK

Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage SDA2500UF SDA5000UF SDA7500UF SDA10000UF SDA12500UF SDA15000UF SDA20000UF SDA25000UF	V_{RRM} V_{RWM} V_R	2500 5000 7500 10000 12500 15000 20000 25000	Volts
Average Rectified Forward Current (Resistive load, 60Hz, Sine Wave, $T_A = 25^\circ\text{C}$, No Heatsink)	I_o	0.5	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$)	I_{FSM}	25	Amps
Operating and Storage Temperature	$T_{OP} \ \& \ T_{stg}$	-55 TO +150	$^\circ\text{C}$

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

DATA SHEET # : RA0006A

**SDA2500UF
thru
SDA25000UF**

PRELIMINARY



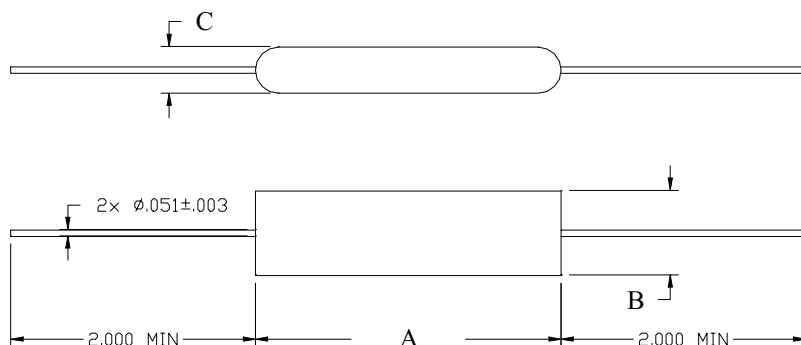
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ELECTRICAL CHARACTERISTIC ^{1/}	SYMBOL	MAXIMUM	UNITS
Instantaneous Forward Voltage Drop ($I_F = 0.5A$, 300 - 500 μ sec pulse)	V_{F1}	5.5	Vdc
SDA2500UF		9.5	
SDA5000UF		15.0	
SDA7500UF		19.0	
SDA10000UF		24.5	
SDA12500UF		28.5	
SDA15000UF		38.0	
SDA20000UF		47.5	
Reverse Leakage Current (Rated V_R , 300 μ s pulse minimum)	I_{R1}	2	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ C$, 300 μ s pulse minimum)	I_{R2}	0.40	mA
Reverse Recovery Time ($I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$)	t_{RR}	80	nsec

^{1/} $T_A = 25^\circ C$, Unless otherwise specified

CASE OUTLINE: HV STICK



PART NUMBER	A $\pm .030$	B $\pm .020$	C $\pm .010$
SDA2500UF	1.125	0.500	0.250
SDA5000UF	1.125	0.500	0.250
SDA7500UF	1.625	0.500	0.250
SDA10000UF	2.000	0.500	0.250
SDA12500UF	2.375	0.500	0.250
SDA15000UF	2.750	0.500	0.250
SDA20000UF	3.500	0.500	0.250
SDA25000UF	4.250	0.500	0.250