PRELIMINARY

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

SDA2500UF thru SDA25000UF

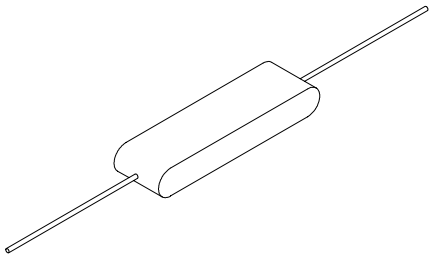
Designer's Data Sheet

0.5 AMPS 2.5kV thru 25kV ULTRAFAST RECOVERY RECTIFIER ASSEMBLY

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**

HV STICK



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

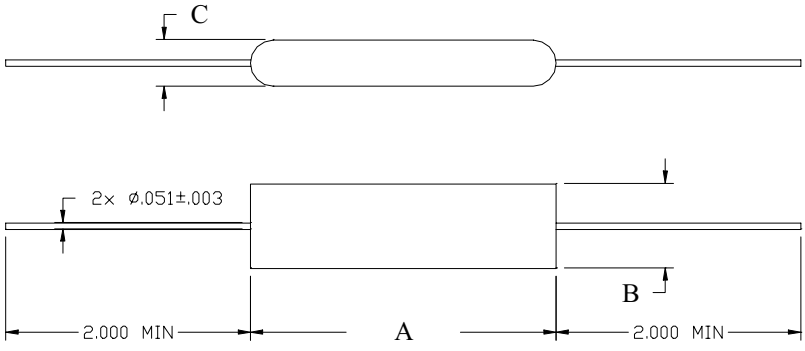
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ELECTRICAL CHARACTERISTIC 1/		SYMBOL	MAXIMUM	UNITS
Instantaneous Forward Voltage Drop (I_F = 0.5A, 300 - 500µsec pulse)	**SDA2500UF**	V_{F1}	**5.5**	**Vdc**
	SDA5000UF		**9.5**	
	SDA7500UF		**15.0**	
	SDA10000UF		**19.0**	
	SDA12500UF		**24.5**	
	SDA15000UF		**28.5**	
	SDA20000UF		**38.0**	
	SDA25000UF		**47.5**	
Reverse Leakage Current (Rated V_R, 300µs pulse minimum)		I_{R1}	**2**	**µA**
Reverse Leakage Current (Rated V_R, T_A = 100°C, 300µs 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°C, Unless otherwise specified

CASE OUTLINE: HV STICK



PART NUMBER	A ± .030	B ± .020	C ± .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