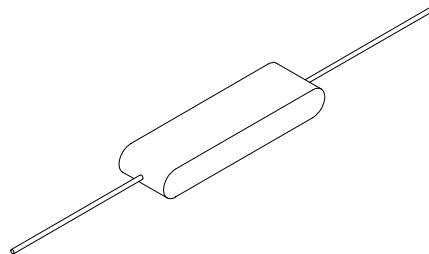




PRELIMINARY

SOLID STATE DEVICES, INC.14005 Stage Road * Santa Fe Springs, Ca 90670
Phone: (562) 404-4474 * Fax: (562) 404-1773**Designer's Data Sheet****FEATURES:**

- Average Output Current 0.5Amps
- 2500 to 25000 V Blocking Voltage
- Ultrafast Recovery: 180 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

**SDA2500F
thru
SDA25000F****0.5 AMPS
2.5kV thru 25kV
FAST RECOVERY
RECTIFIER ASSEMBLY****HV STICK**

Maximum Ratings		SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	SDA2500F	V_{RRM} V_{RWM} V_R	2500	Volts
	SDA5000F		5000	
	SDA7500F		7500	
	SDA10000F		10000	
	SDA12500F		12500	
	SDA15000F		15000	
	SDA20000F		20000	
	SDA25000F		25000	
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, $T_A = 25^\circ\text{C}$, per leg)		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 # : RA0007A**

**SDA2500F
thru
SDA25000F**

PRELIMINARY



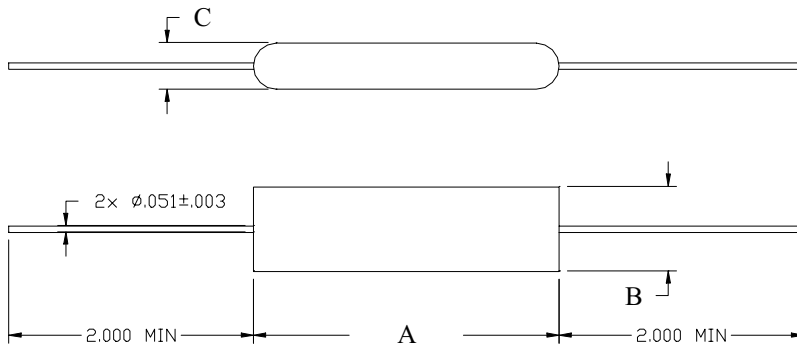
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ELECTRICAL CHARACTERISTIC ^{1/}	SYMBOL	MAXIMUM	UNITS
Instantaneous Forward Voltage Drop ($I_F = 0.5A$, 300 - 500 μ sec pulse)	V_{F1}	4.5	Vdc
SDA2500F		7.5	
SDA5000F		12.0	
SDA7500F		15.0	
SDA10000F		19.5	
SDA12500F		22.5	
SDA15000F		30.0	
SDA20000F		37.5	
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}	0.25	mA
Reverse Recovery Time ($I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$)	t_{RR}	180	nsec

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

CASE OUTLINE: HV STICK



PART NUMBER	A $\pm .030$	B $\pm .020$	C $\pm .010$
SDA2500F	1.125	0.500	0.250
SDA5000F	1.125	0.500	0.250
SDA7500F	1.625	0.500	0.250
SDA10000F	2.000	0.500	0.250
SDA12500F	2.375	0.500	0.250
SDA15000F	2.750	0.500	0.250
SDA20000F	3.500	0.500	0.250
SDA25000F	4.250	0.500	0.250