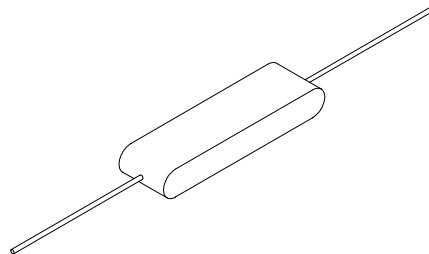




PRELIMINARY

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 2 Amps
- 2500 to 25000 V Blocking Voltage
- Ultrafast Recovery: 70 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

**SDAH2500UF
thru
SDAH25000UF****2 AMPS
2.5kV thru 25kV
ULTRAFAST RECOVERY
RECTIFIER ASSEMBLY****HV STICK**

Maximum Ratings		SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	SDAH2500UF	V_{RRM} V_{RWM} V_R	2500	Volts
	SDAH5000UF		5000	
	SDAH7500UF		7500	
	SDAH10000UF		10000	
	SDAH12500UF		12500	
	SDAH15000UF		15000	
	SDAH20000UF		20000	
	SDAH25000UF		25000	
Average Rectified Forward Current (Resistive load, 60Hz, Sine Wave, $T_A = 25^\circ\text{C}$, No Heatsink)		I_o	2	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$, per leg)		I_{FSM}	75	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 # : RA0003A**

SDAH2500UF thru SDAH25000UF

PRELIMINARY



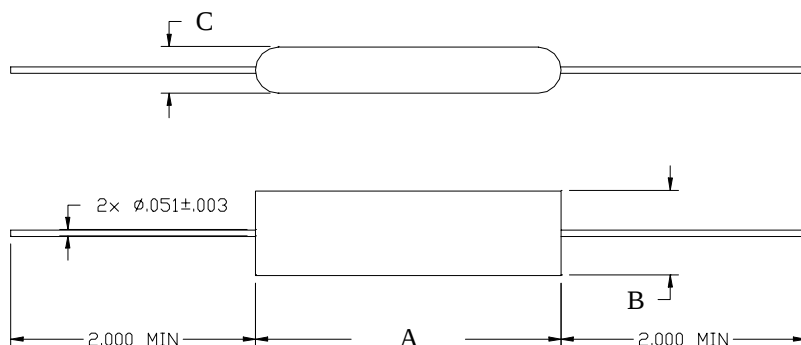
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ELECTRICAL CHARACTERISTIC ^{1/}	SYMBOL	MAXIMUM	UNITS
Instantaneous Forward Voltage Drop (I _F = 3A, 300 - 500μsec pulse) SDAH2500UF SDAH5000UF SDAH7500UF SDAH10000UF SDAH12500UF SDAH15000UF SDAH20000UF SDAH25000UF	V _{F1}	5.5 9.5 15.0 19.0 24.5 28.5 38.0 47.5	V _{dc}
Reverse Leakage Current (Rated V _R , 300μs pulse minimum)	I _{R1}	3	μA
Reverse Leakage Current (Rated V _R , T _A = 100°C, 300μs pulse minimum)	I _{R2}	0.50	mA
Reverse Recovery Time (I _F = 0.5A, I _R = 1.0A, I _{RR} = 0.25A)	t _{RR}	70	nsec

^{1/} T_A = 25°C, Unless otherwise specified

CASE OUTLINE: HV STICK



PART NUMBER	A 6.030	B 6.020	C 6.010
SDAH2500UF	1.50	0.690	0.380
SDAH2500UF	2.50	0.690	0.380
SDAH7500UF	3.50	0.690	0.380
SDAH10000UF	4.50	0.690	0.380
SDAH12500UF	5.50	0.690	0.380
SDAH15000UF	6.50	0.690	0.380
SDAH20000UF	6.50	0.690	0.380
SDAH25000UF	6.50	0.690	0.380