



PRELIMINARY

SOLID STATE DEVICES, INC.

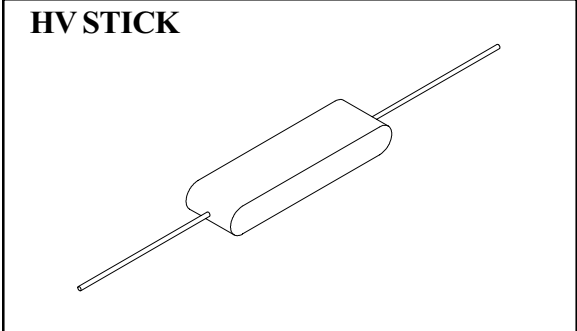
14830 Valley View Blvd * La Mirada, Ca 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773

Designer's Data Sheet

**SDA2500UF
thru
SDA25000UF**

**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



Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	SDA2500UF SDA5000UF SDA7500UF SDA10000UF SDA12500UF SDA15000UF SDA20000UF SDA25000UF	2500 5000 7500 10000 12500 15000 20000 25000	Volts
Average Rectified Forward Current (Resistive load, 60Hz, Sine Wave, T _A = 25°C, No Heatsink)	I _o	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} & T _{stg}	-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

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thru
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ELECTRICAL CHARACTERISTIC ^{1/}	SYMBOL	MAXIMUM	UNITS
Instantaneous Forward Voltage Drop ($I_F = 0.5A$, 300 - 500 μ sec pulse)	SDA2500UF SDA5000UF SDA7500UF SDA10000UF SDA12500UF SDA15000UF SDA20000UF SDA25000UF	5.5 9.5 15.0 19.0 24.5 28.5 38.0 47.5	Vdc
Reverse Leakage Current (Rated V_R , 300 μ s pulse minimum)	I_{R1}	2	μ A
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	B	C
		$\pm .030$	$\pm .020$	$\pm .010$
	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