



SOLID STATE DEVICES, INC.

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

Designer's Data Sheet

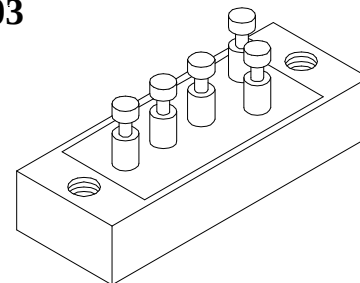
FEATURES:

- Up to 1000 V Blocking Voltage
- Average Output Current 6 Amps
- Low Reverse Leakage Current
- Constructed with Void-free, Hermetically Sealed Discretes
- Aluminum Case for Maximum Thermal Conductivity
- Electrically Insulated Aluminum Case
- TX and TXV Level Screening Available
- Fast and Ultra Fast Recovery Versions Available. Consult Factory.

**SDA403A
through
SDA403G**

**6 AMPS
STANDARD RECOVERY
THREE PHASE BRIDGE
RECTIFIER ASSEMBLY**

SDA403



Maximum Ratings		SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	SDA403A	V_{RRM} V_{RWM} V_R	50	Volts
	SDA403B		100	
	SDA403C		200	
	SDA403D		400	
	SDA403E		600	
	SDA403F		800	
	SDA403G		1000	
Average Rectified Forward Current (Resistive load, 60Hz, Sine Wave, $T_C = 55^{\circ}\text{C}$)		I_o	6	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^{\circ}\text{C}$)		I_{FSM}	30	Amps
Operating and Storage Temperature Maximum Junction Temperature		T_{OP} & T_{stg} T_J	-55 TO +150 175	$^{\circ}\text{C}$
Maximum Thermal Resistance Junction to Case		θ_{JC}	8.5	$^{\circ}\text{C/W}$

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

DATA SHEET # : RA0005B

SDA403A through SDA403G



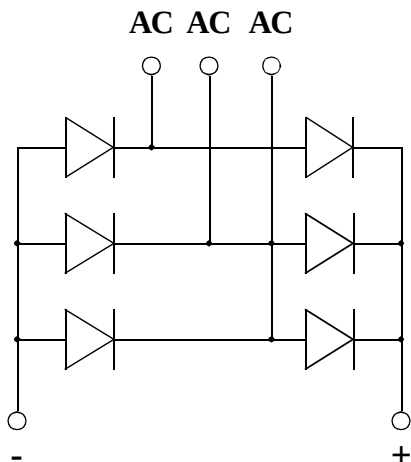
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Electrical Characteristics ^{1/} (per leg)	SYMBOL	VALUE	UNITS
Instantaneous Forward Voltage Drop ($I_F = 3A$, 300 - 500 μ sec pulse)	V_{F1}	1.2	Vdc
Reverse Leakage Current (Rated V_R , 300 μ s pulse minimum)	I_{R1}	3	mA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ C$, 300 μ s pulse minimum)	I_{R2}	100	mA
Reverse Recovery Time ($I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$)	t_{RR}	5	msec

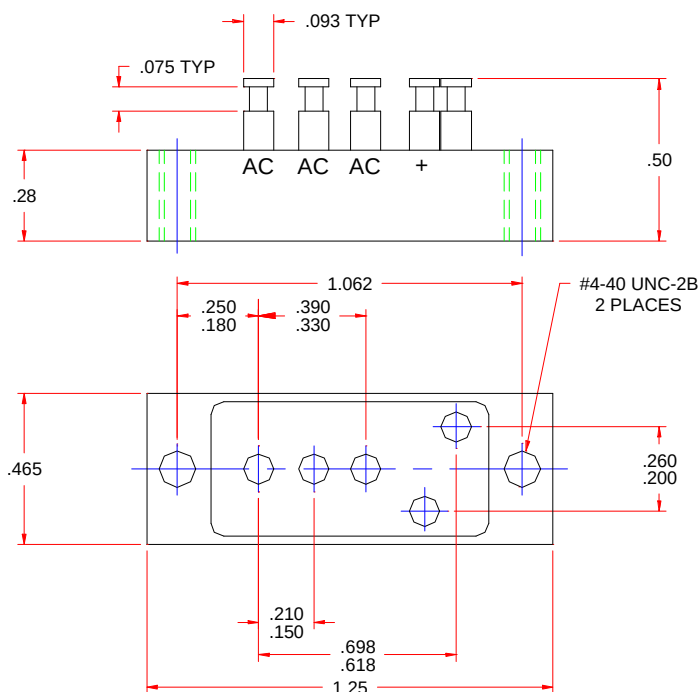
^{1/} $T_A = 25^\circ C$, Unless otherwise specified

CASE OUTLINE: SDA403



Tolerances: (Unless otherwise specified)

.xx: $\pm .03$
.xxx: $\pm .010$



TEMPERATURE DERATING CURVE

