



Solid State Devices, Inc.

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SDA316A thru SDA316E

**5 AMPS, 50 – 600 VOLTS
 STANDARD RECOVERY
 THREE PHASE BRIDGE RECTIFIER**

Designer's Data Sheet

Part Number/Ordering Information ^{1/}
SDA316 — —

^{2/} **Screening**
 — = Not Screened
 TX = TX Level
 TXV = TXV
 S = S Level

Peak Inverse Voltage (per leg)
 A = 50V, B = 100V, C = 200V,
 D = 400V, E = 600V.

FEATURES:

- Average Output Current 5 Amps @ 55° C
- PIV 50 to 600 Volts Per Leg
- Efficient Thermal Design
- Insulated Electrical Connections
- Hermetically Sealed
- Aluminum Case
- Available in Fast, Ultra Fast and Hyper Fast Versions
- Available in Higher Voltages
- TX, TXV, and S-Level Screening Available

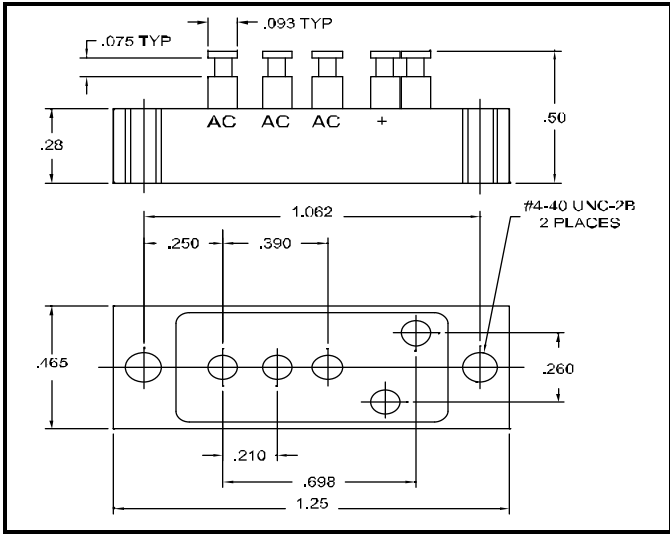
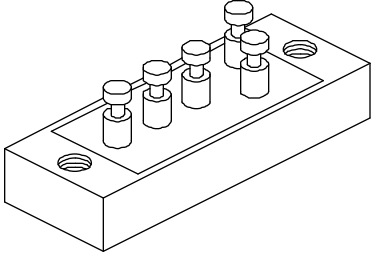
ELECTRICAL CHARACTERISTICS ^{3/}

Part Number	Peak Inverse Voltage (per leg)	Sine Wave RMS Input Voltage Max.	Reverse ^{4/} Recovery Time	Average DC Output Current T _c =Case Temp		Average DC Output Current T _A = Ambient Temp (no heat sink)		Peak DC Output (1 Sec. Max.)	Peak Forward Surge Current (1 Cycle)	Peak Repetitive Forward Current	Maximum Forward Voltage (per leg) @ 3 ADC	Maximum Reverse Current (per leg) @ PIV	
				I _{F(AV)}	I _{F(AV)}	I _{F(AV)}	I _{F(AV)}					I _R	I _R
Symbol	PIV	V _r	T _{rr}	I _{F(AV)}		I _{F(AV)}		I _{FSM}	I _{FSM}	I _{FRM}	V _F	I _R	
Units	Volts	Volts	µs	Amps		Amps		Amps	Amps	Amps	Volts	µA	
Conditions			Max	55° C	100° C	25° C	55° C	55° C				25° C	100° C
SDA316A	50	35	5	5.0	3.0	2.0	1.5	10	50	15	1.2	3	75
SDA316B	100	70	5	5.0	3.0	2.0	1.5	10	50	15	1.2	3	75
SDA316C	200	140	5	5.0	3.0	2.0	1.5	10	50	15	1.2	3	75
SDA316D	400	280	5	5.0	3.0	2.0	1.5	10	50	15	1.2	3	75
SDA316E	600	420	5	5.0	3.0	2.0	1.5	10	50	15	1.2	3	75

SDA316A thru SDA316E ^{5/}:

NOTES:

- 1/** For Ordering Information, Price, and Availability- Contact Factory.
- 2/** Screened to MIL-PRF-19500.
- 3/** Unless Otherwise Specified, All Electrical Characteristics @25° C.
- 4/** Recovery Conditions: I_F = 0.5 Amp, I_R = 1.0 Amp rec. to .25 Amp.
- 5/** For Information on Curves, Contact Factory for Assistance.



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