



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
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Designer's Data Sheet

Part Number/Ordering Information^{1/}

SDA37

Screening^{2/}

— = Not Screened

TX = TX Level

TXV = TXV Level

S = S Level

Reverse Recovery

UF = Ultrafast

Peak Inverse Voltage (per leg)

A = 100V, B = 200V, C = 300V,

D = 400V, E = 500V, F = 600V,

SDA37AUF thru SDA37FUF

10 AMP, 100 – 600 VOLTS

ULTRAFAST RECOVERY
THREE PHASE BRIDGE RECTIFIER

FEATURES:

- Ultrafast Reverse Recovery Time 70 ns Max
- Average Output Current 10 Amps @ 50°C
- PIV 100 to 600 Volts Per Leg
- Efficient Thermal Design
- Glass Passivated Diode Cells
- Case Electrically Insulated
- Aluminum Case
- Available in Hyperfast Recovery Times
- Available in Higher Voltages
- TX, TXV, and S-Level Screening Available

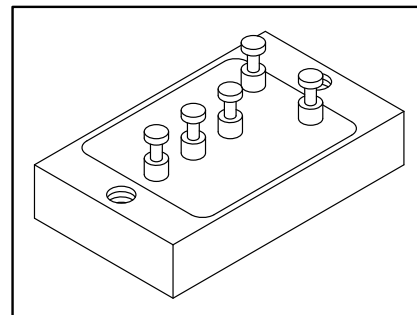
ELECTRICAL CHARACTERISTICS^{3/}

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 Forward Surge Current (1 Cycle)	Peak Repetitive Forward Current	Maximum Forward Voltage (per leg) @ 3 ADC	Maximum Reverse Current (per leg) @ PIV	
Symbol	PIV	V _R	t _{RR}	I _F (AV)		I _F (AV)		I _{FSM}	I _{FRM}	V _F	I _R	
Units	Volts	Volts	ns	Amps		Amps		Amps	Amps	Volts	µA	
Conditions			Max	50°C	100°C	25°C	55°C				25°C	100°C
SDA37AUF	100	70	70	10	7.0	3.0	2.2	75	18	1.35	20	500
SDA37BUF	200	140	70	10	7.0	3.0	2.2	75	18	1.35	20	500
SDA37CUF	300	210	70	10	7.0	3.0	2.2	75	18	1.35	20	500
SDA37DUF	400	280	70	10	7.0	3.0	2.2	75	18	1.35	20	500
SDA37EUF	500	350	70	10	7.0	3.0	2.2	75	18	1.35	20	500
SDA37FUF	600	420	70	10	7.0	3.0	2.2	75	18	1.35	20	500

NOTES:

1. For ordering information, price, outline, curves, and availability - contact factory.
2. Screening based on MIL-PRF-19500. Screening flows available on request.
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.

SDA37 Package:



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

DATA SHEET #: RA0083B

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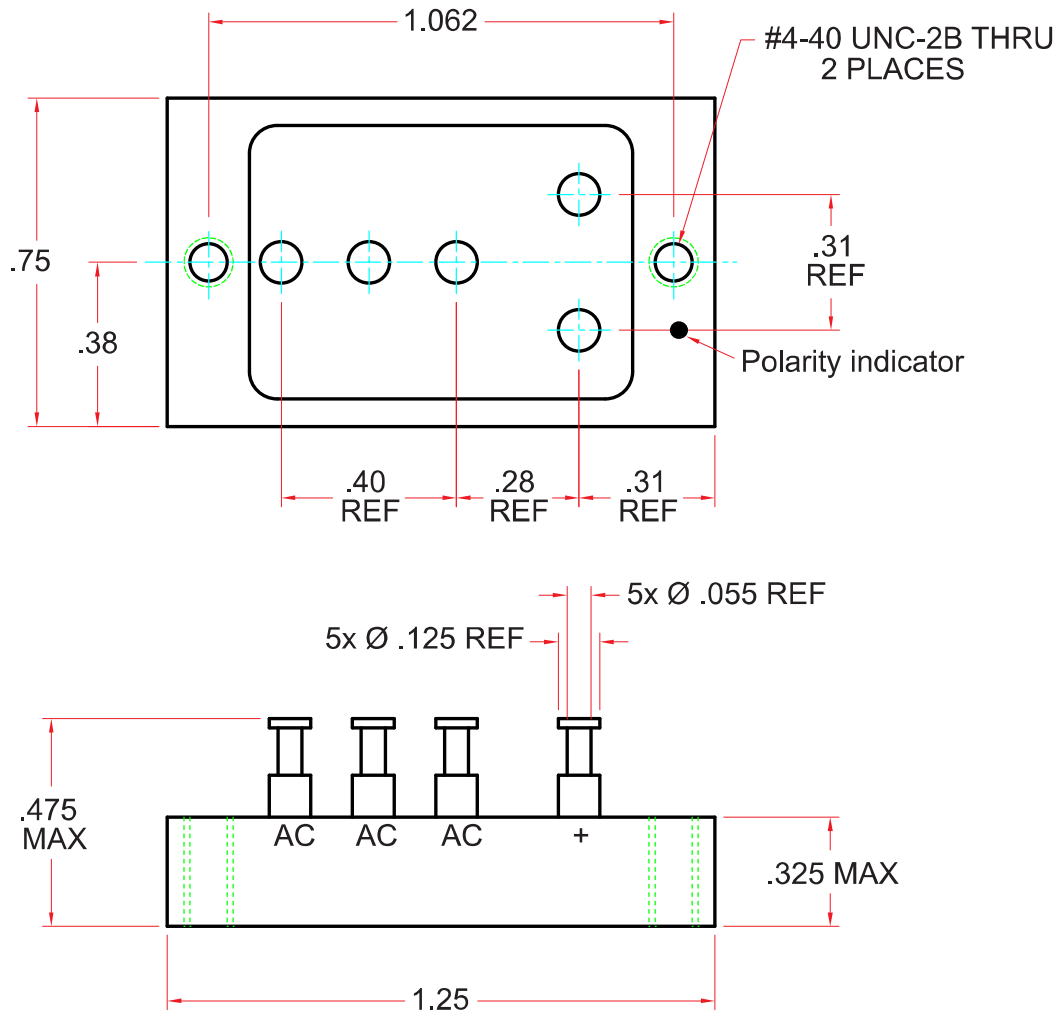


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SDA37AUF thru SDA37FUF

Case Outline: SDA37



Tolerances:

.xx ± .03

.xxx ± .010

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