



Solid State Devices, Inc.

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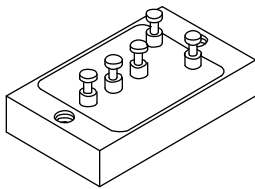
SDA38AHF thru SDA38FHF

**10 AMPS 100 – 600 VOLTS
 HYPER FAST RECOVERY
 THREE PHASE BRIDGE RECTIFIER**

Designer's Data Sheet

Part Number/Ordering Information ^{1/}

SDA38 — — —



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

Reverse Recovery
 HF = Hyper Fast

Peak Inverse Voltage (per leg)
 A = 100V, B = 200V, C = 300V,
 D = 400V, E = 500V, F = 600V.

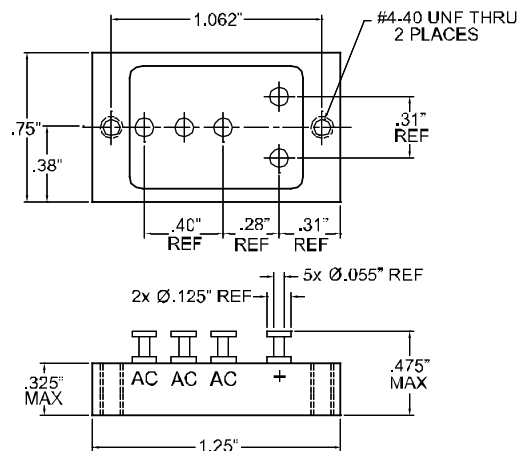
FEATURES:

- Hyper Fast Reverse Recovery Time 40 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 Higher Voltages

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	
				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 _{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
SDA38AHF	100	70	40	10	7.0	3.0	2.2	75	18	1.35	10	1000
SDA38BHF	200	140	40	10	7.0	3.0	2.2	75	18	1.35	10	1000
SDA38CHF	300	210	40	10	7.0	3.0	2.2	75	18	1.35	10	1000
SDA38DHF	400	280	40	10	7.0	3.0	2.2	75	18	1.35	10	1000
SDA38EHF	500	350	40	10	7.0	3.0	2.2	75	18	1.35	10	1000
SDA38FHF	600	420	40	10	7.0	3.0	2.2	75	18	1.35	10	1000

SDA38 Package:



NOTES:

- 1/ For Ordering Information, Price, Curves, 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.

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

DATA SHEET #: RA0030A

DOC