



Solid State Devices, Inc.

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SDA403AF thru SDA403GF

5 AMPS 50 — 1000 VOLTS

FAST RECOVERY THREE PHASE BRIDGE RECTIFIER

Designer's Data Sheet

Part Number/Ordering Information^{1/}

SDA403

Screening^{2/}

— = Not Screened
 TX = TX Level
 TXV = TXV
 S = S Level

Reverse Recovery

F = Fast

Peak Inverse Voltage (per leg)

A = 50V, B = 100V, C = 200V,
 D = 400V, E = 600V, F = 800V,
 G = 1,000V.

FEATURES:

- Fast Reverse Recovery Time 150 ns Max
- Average Output Current 5 Amps @ 50°C
- PIV 50 to 1000 Volts Per Leg
- Efficient Thermal Design
- Double Plug, Void Free, Hermetically Sealed, Glass Passivated Diode Cells
- Case Electrically Insulated
- Machined Aluminum Case
- Available in Ultra Fast and Hyper Fast Versions
- Available in Higher Voltages
- TX, TXV, and S-Level Screening Available

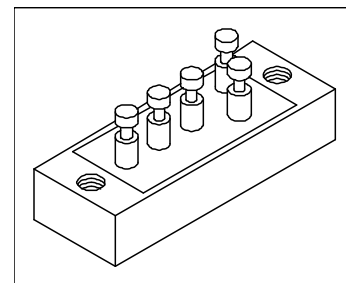
ELECTRICAL CHARACTERISTICS^{3/}

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 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
SDA403AF	50	35	150	5.0	2.5	1.5	1.0	25	9.0	1.4	3	75
SDA403BF	100	70	150	5.0	2.5	1.5	1.0	25	9.0	1.4	3	75
SDA403CF	200	140	150	5.0	2.5	1.5	1.0	25	9.0	1.4	3	75
SDA403DF	400	280	150	5.0	2.5	1.5	1.0	25	9.0	1.4	3	75
SDA403EF	600	420	150	5.0	2.5	1.5	1.0	25	9.0	1.4	3	75
SDA403FF	800	560	150	5.0	2.5	1.5	1.0	25	9.0	1.4	3	75
SDA403GF	1000	700	150	5.0	2.5	1.5	1.0	25	9.0	1.4	3	75

NOTES:

1. For Ordering Information, Price, Outline, 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.

SDA403 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 #: RA0082A

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