



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, CA 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
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SDA175HF series

Designer's Data Sheet

Part Number/Ordering Information ^{1/}

SDA175

HF

Screening ^{2/}

— = Not Screened

TX = TX Level

TXV = TXV Level

S = S Level

Reverse Recovery

HF = Hyper Fast

Family/Voltage

J = 600 V

K = 700 V

L = 800 V

M = 900 V

30 nsec
3.0 Amp
Three Phase Bridge
Rectifier Assembly
600 – 900 Volts

FEATURES:

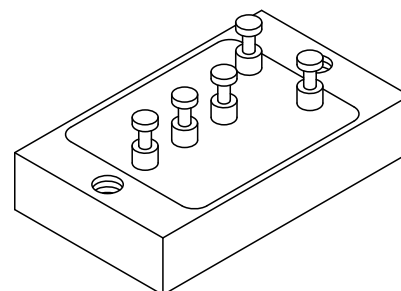
- Reverse Recovery Time: 30 ns Max
- Average Output Current: 3.0 Amps
- PIV: 600 to 900 Volts
- Hermetically Sealed Internal Discretes
- Aluminum Case
- Thermal Conductive Epoxy Encapsulated
- Available in Higher Voltages
- Available in Ultra Fast, Fast, and Standard Recovery

Electrical Characteristics		Peak Inverse Voltage (per leg)	Average DC Output Current T _C =Case Temp		Reverse Recovery Time	Peak Forward Surge Current (1 Cycle)	Maximum Forward Voltage (per leg) @ 1.0 ADC	Maximum Reverse Current (per leg) @ PIV	
			50°C	100°C	Max			25°C	100°C
Part Number		Volts	Amps	Amps	ns	Amps	Volts	µA	µA
SDA175J	HF	600	3.0	2.4	30	25	1.9	10	250
SDA175K	HF	700	3.0	2.4	30	25	1.9	10	250
SDA175L	HF	800	3.0	2.4	30	25	1.9	10	250
SDA175M	HF	900	3.0	2.4	30	25	1.9	10	250

NOTES:

^{1/} For ordering information, price, and availability - contact factory.

^{2/} Screening based on MIL-PRF-19500. Screening flows available on request.



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

DATA SHEET #: RA0106A

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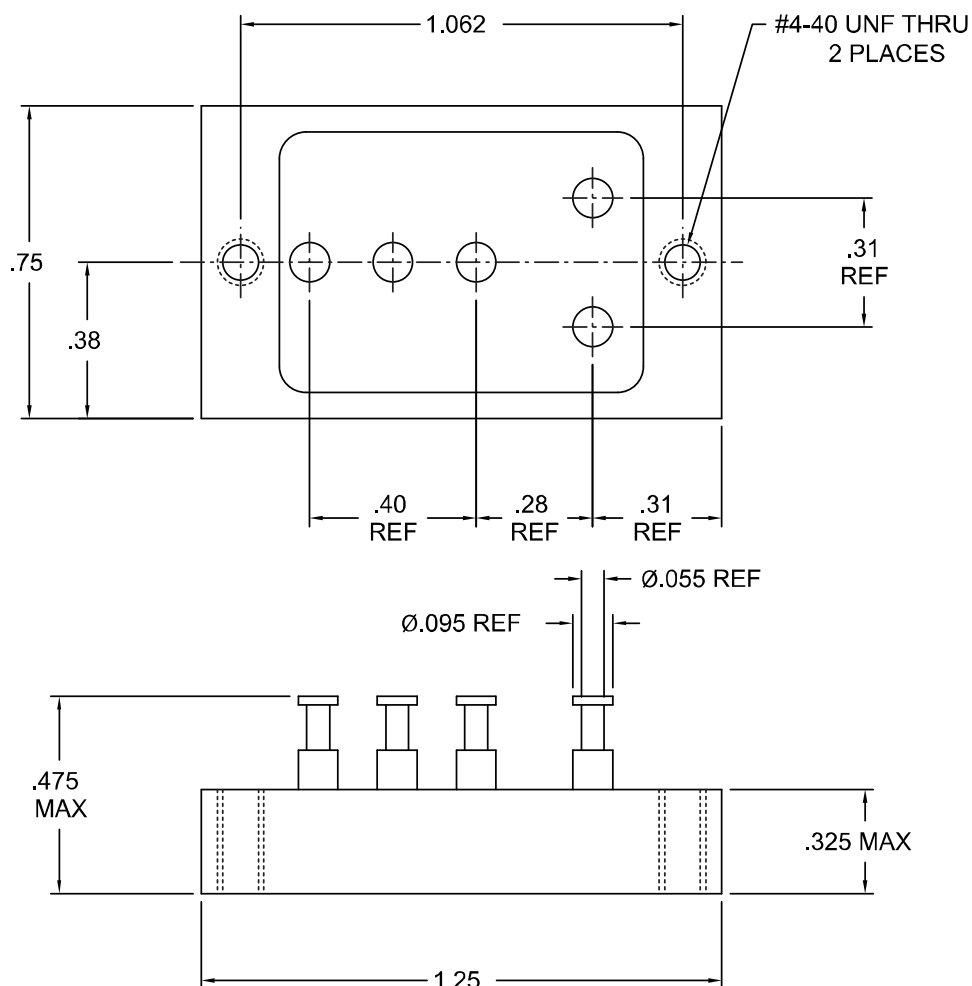
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SDA175HF series

SDA175J through SDA175M:



*For information on curves, contact the Factory Representative for Engineering Assistance.

Design Notes:

Insulation Resistance R_{DC} 10M Ω Minimum

Operating Temperature T_{OP} -55 $^{\circ}C$ to +150 $^{\circ}C$

Thermal Resistance Junction to Lead (Each Leg, $L = 3/8"$) $R_{\theta JL}$ 50 $^{\circ}C/W$

Reverse Recovery Time $I_F = 500mA$, $I_R = 1.0$ Amp, $I_{rr} = 250mA$

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