



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

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

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

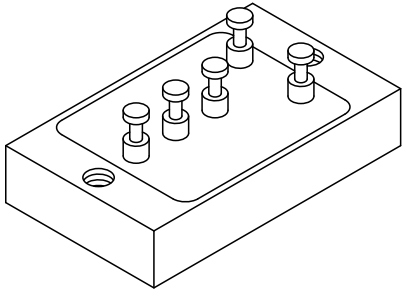
Family/Voltage
 J = 600 V
 K = 700 V
 L = 800 V
 M = 900 V

- 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				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.



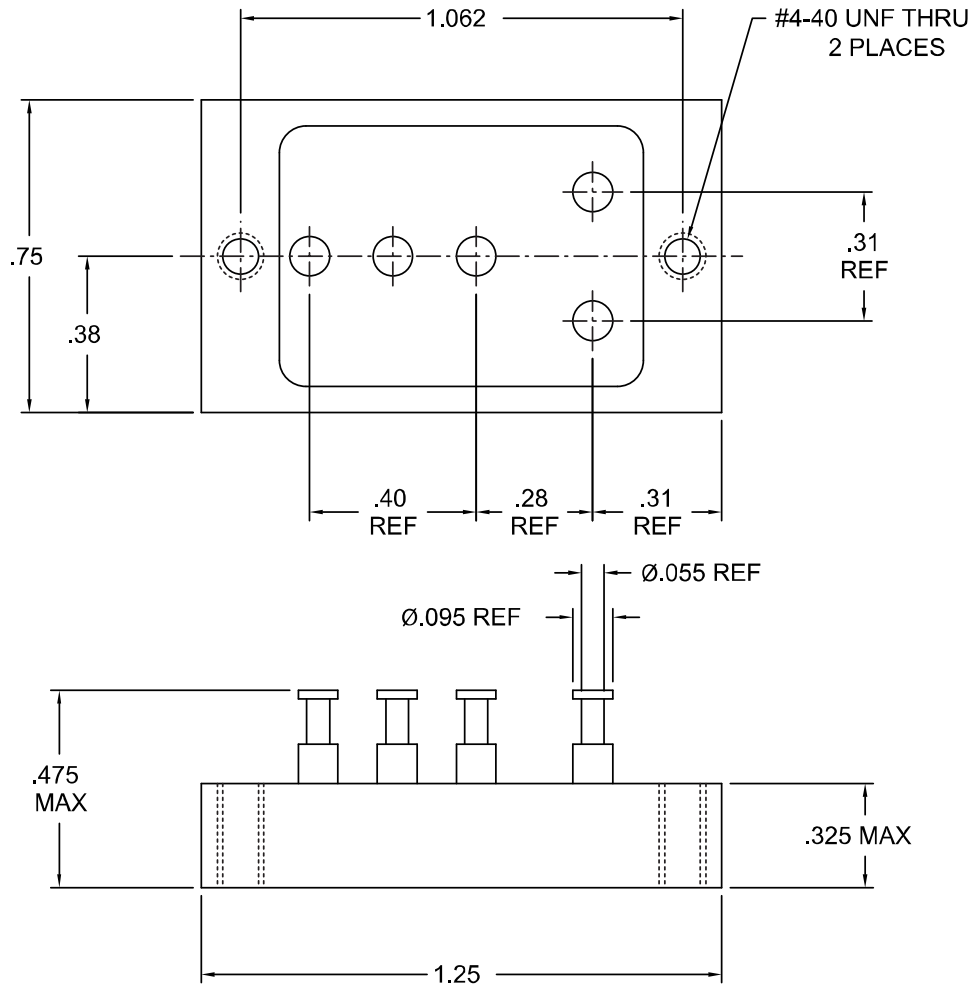


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SDA175J through SDA175M:



*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, $I_{rr} = 250mA$