



**Solid State Devices, Inc.**

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# SDA173HF series

## Designer's Data Sheet

**Part Number/Ordering Information <sup>1/</sup>**

**SDA173**      **HF**

└─ Screening <sup>2/</sup>

    — = 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

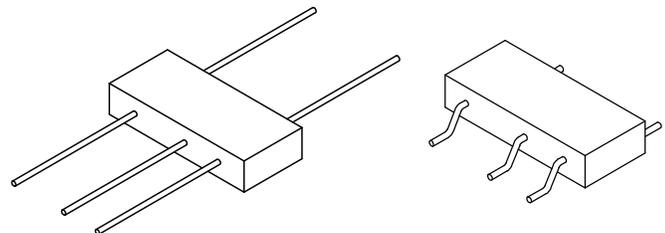
**30 nsec**  
**2.5 Amp**  
**Three Phase Bridge**  
**Rectifier Assembly**  
**600 – 900 Volts**

- FEATURES:**
- Reverse Recovery Time: 30 ns Max
  - Average Output Current: 2.5 Amps
  - PIV: 600 to 900 Volts
  - Hermetically Sealed Internal Discretes
  - 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 <sub>C</sub> =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
<b>SDA173J</b>	<b>HF</b>	600	2.5	2.0	30	25	1.9	10	250
<b>SDA173K</b>	<b>HF</b>	700	2.5	2.0	30	25	1.9	10	250
<b>SDA173L</b>	<b>HF</b>	800	2.5	2.0	30	25	1.9	10	250
<b>SDA173M</b>	<b>HF</b>	900	2.5	2.0	30	25	1.9	10	250

**NOTES:**

- <sup>1/</sup> For ordering information, price, and availability - contact factory.  
<sup>2/</sup> Screening based on MIL-PRF-19500. Screening flows available on request.



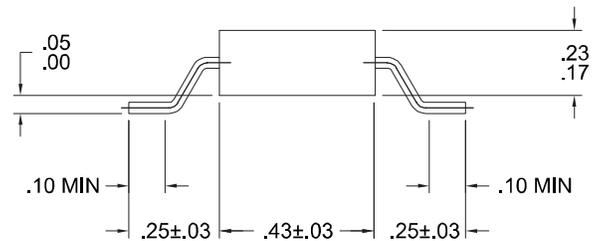
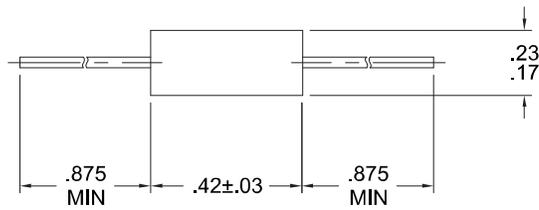
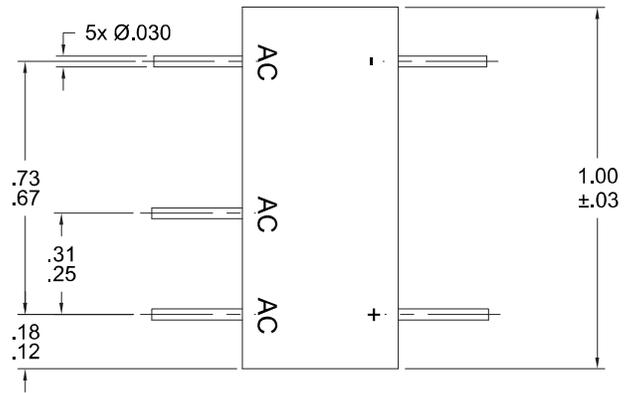
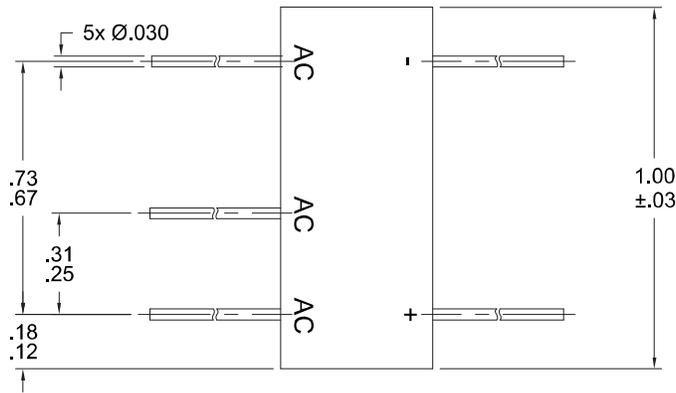


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## SDA173J through SDA173M:



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

### Design Notes:

Operating Temperature  $T_{OP}$  -55 °C to +150 °C

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

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

**DATA SHEET #: RA0104A**

**DOC**