



**Solid State Devices, Inc.**

14701 Firestone Blvd \* La Mirada, Ca 90638  
 Phone: (562) 404-4474 \* Fax: (562) 404-1773  
 ssdi@ssdi-power.com \* www.ssdi-power.com

# SDA356 SERIES

**1 AMP, 100 – 1,200 VOLTS  
 30 – 150 nsec  
 HIGH RELIABILITY  
 SINGLE PHASE BRIDGE RECTIFIER**

- FEATURES:**
- Average Output Current 1.0 Amps @ 55°C
  - PIV 100 to 1200 Volts Per Leg
  - Reverse Recovery Time: 30 – 150 nsec
  - Operating and Storage Temperature -55°C to +150°C
  - Subminiature Design for Packaging Versatility
  - Surface Mount Bent Leads Available
  - Constructed with Void-Free Hermetically Sealed Discretes
  - Available in Higher Voltages
  - Available in Standard, Fast, Ultra Fast, and Hyper Fast Recovery Times
  - TX, TXV, and S-Level Screening Available

**Designer's Data Sheet**

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

**SDA356**    - - - - -

**L Screening <sup>2/</sup>**    - = Not Screened  
                           TX = TX Level  
                           TXV = TXV  
                           S = S Level

**L Package**        - = SDA356 <sup>4/</sup>  
                           T = SDA356T  
                           G = SDA356G  
                           S = SDA356S

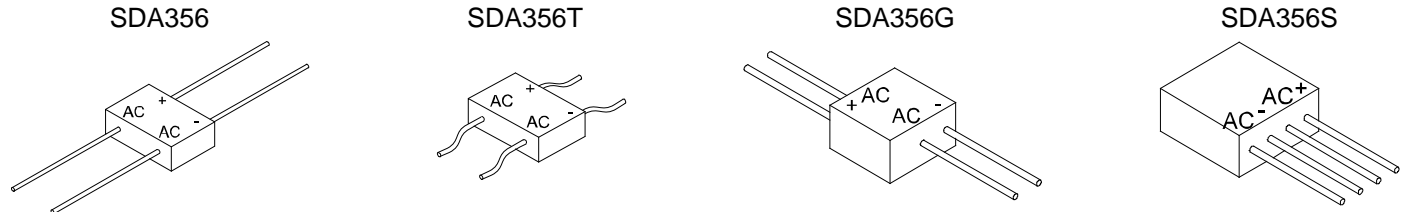
**Reverse Recovery Time <sup>3/</sup>**  
                           F = Fast Recovery  
                           UF = Ultra Fast Recovery  
                           HF = Hyper Fast Recovery

**Peak Inverse Voltage**  
                           B = 100 V, D = 200 V, G = 400 V, J = 600 V,  
                           K = 800 V, M = 1,000 V, N = 1,200 V

**ELECTRICAL CHARACTERISTICS <sup>3/</sup>**

Part Number	Peak Inverse Voltage (per leg)	Reverse Recovery Time @ I <sub>F</sub> = 0.5 A, I <sub>R</sub> = 1.0 A, I <sub>R</sub> = 0.25 A			Average DC Output Current T <sub>C</sub> =Case Temp		Peak Forward Surge Current (1 Cycle)	Maximum Forward Voltage (per leg) @ 1 ADC			Maximum Reverse Current (per leg) @ PIV	
		t <sub>rr</sub>			I <sub>F</sub> (AV)			I <sub>FSM</sub> @8.3ms	V <sub>F</sub>			I <sub>R</sub>
Symbol	PIV	ns			Amps		Amps	Volts			µA	
Units	Volts	ns	ns	ns	Amps		Amps	Volts			µA	
Conditions		F	UF	HF	55°C	100°C		F	UF	HF	25°C	100°C
SDA356B	100	150	55	30	1.2	0.8	25	1.1	1.2	1.4	3	100
SDA356D	200	150	55	30	1.2	0.8	25	1.1	1.2	1.4	3	100
SDA356G	400	150	55	30	1.2	0.8	25	1.1	1.2	1.4	3	100
SDA356J	600	150	60	40	1.2	0.8	25	1.1	1.5	1.7	3	100
SDA356K	800	150	60	40	1.2	0.8	25	1.1	1.5	1.7	3	100
SDA356M	1000	150	70	40	1.2	0.8	25	1.4	1.9	3.2	3	100
SDA356N	1200	150	70	40	1.2	0.8	25	1.4	1.9	3.2	3	100

- NOTES:** <sup>1/</sup> For ordering information, price, curves, and availability- contact factory.  
<sup>2/</sup> Screening based on MIL-PRF-19500. Screening flows available on request.  
<sup>3/</sup> Unless otherwise specified, all electrical characteristics @25°C.  
<sup>4/</sup> S Level suffix: "-S"

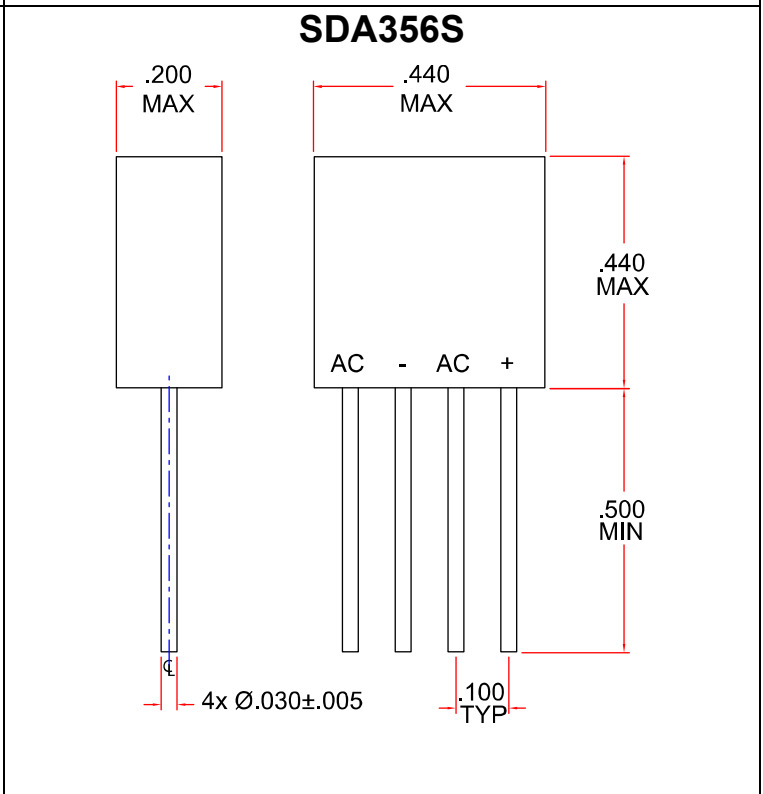
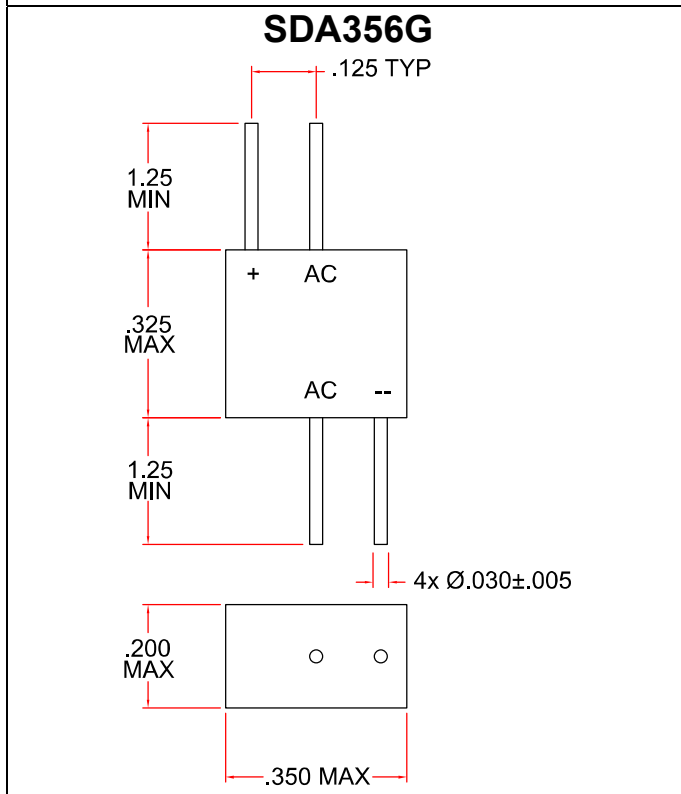
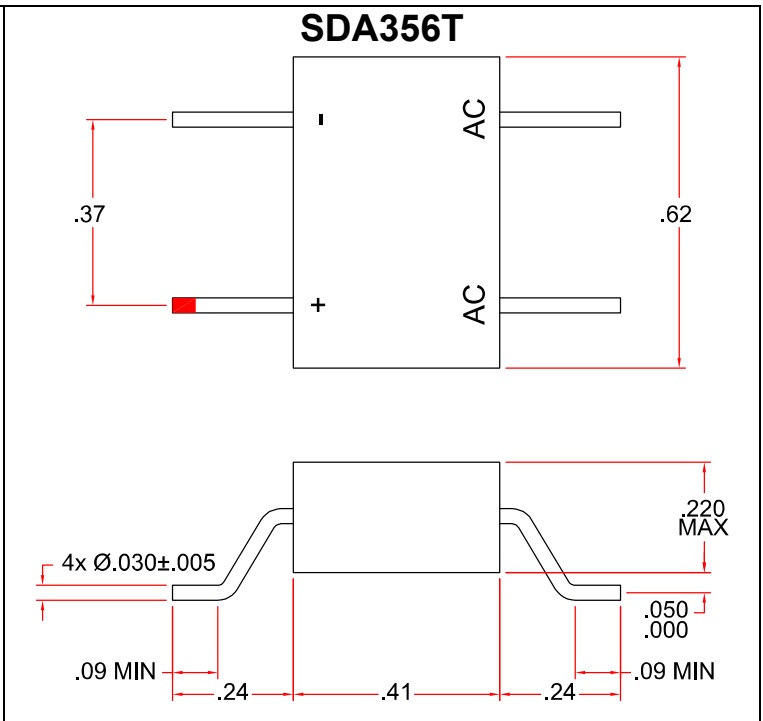
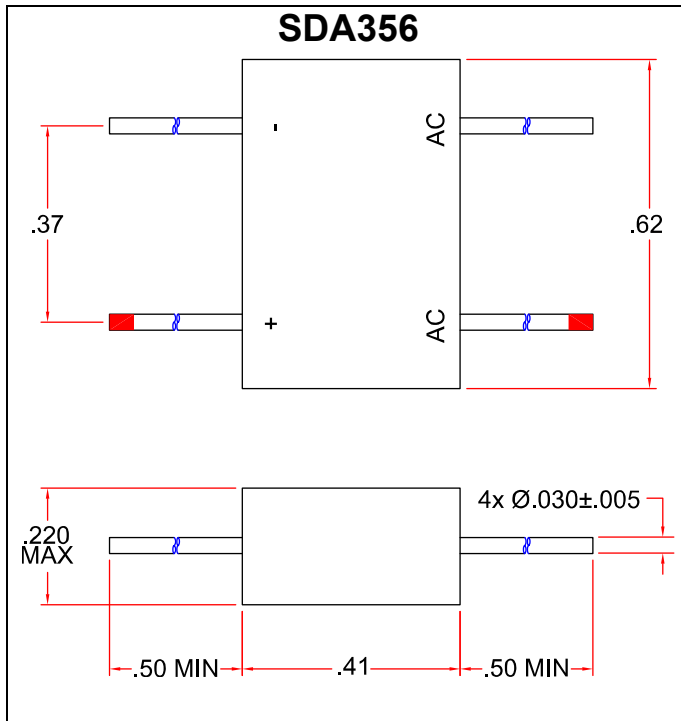




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## SDA356 SERIES



Tolerances (unless specified):

.XX = ±.020"

.XXX = ±.010"

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

**DATA SHEET #: RA0056B**

**DOC**