



**Solid State Devices, Inc.**

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## SDA276A thru SDA276G SERIES

**3 AMPS 50 – 1,000 VOLTS  
 150 nsec – 1 μsec  
 SINGLE PHASE BRIDGE RECTIFIER**

### Designer's Data Sheet

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

**SDA276** - - - - -

#### L Screening <sup>2/</sup>

- = Not Screened
- TX = TX Level
- TXV = TXV
- S = S Level

#### Package

- = SDA276
- T = SDA276T
- G = SDA276G
- S = SDA276S

#### Reverse Recovery <sup>3/</sup>

- = Standard Recovery Time
- F = Fast Recovery Time

#### Peak Inverse Voltage

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

#### FEATURES:

- Average Output Current 3.0 Amps @ 55°C
- PIV 50 to 1000 Volts Per Leg
- Reverse Recovery Time: 150nsec - 1μsec
- Operating and Storage Temperature -55°C to +150°C
- Subminiature Design for Packaging Versatility
- Surface Mount Bent Leads Available
- Available in Higher Voltages
- Replacement for 673-1 thru 673-6 and 676-1 thru 676-6
- Available in Standard, Fast, Ultra Fast, and Hyper Fast Recovery Times
- TX, TXV, and S-Level Screening Available

### ELECTRICAL CHARACTERISTICS <sup>4/</sup>

| Part Number | Peak Inverse Voltage (per leg) | Sine Wave RMS Input Voltage Max. | Reverse <sup>3/</sup> Recovery Time |      | Average DC Output Current<br>T <sub>c</sub> =Case Temp |       | Peak Forward Surge Current (1 Cycle) | Maximum Forward Voltage (per leg) @ 3 ADC |      | Maximum Reverse Current (per leg) @ PIV |       |
|-------------|--------------------------------|----------------------------------|-------------------------------------|------|--|-------|--------------------------------------|---|------|---|-------|
|             |                                |                                  | T <sub>rr</sub>                     |      | I <sub>F</sub> (AV)                                    |       |                                      | V <sub>F</sub>                            |      | I <sub>R</sub>                          |       |
| Symbol      | PIV                            | V <sub>r</sub>                   | T <sub>rr</sub>                     |      | I <sub>F</sub> (AV)                                    |       | I <sub>FSM</sub>                     | V <sub>F</sub>                            |      | I <sub>R</sub>                          |       |
| Units       | Volts                          | Volts                            | μs                                  | ns   | Amps   |       | Amps                                 | Volts                                     |      | μA                                      |       |
| Conditions  |                                |                                  | Std                                 | Fast | 55°C   | 100°C |                                      | Std                                       | Fast | 25°C                                    | 100°C |
| SDA276A     | 50                             | 35                               | 1                                   | 150  | 3.0  | 2.0   | 30                                   | 1.2                                       | 1.3  | 2                                       | 40    |
| SDA276B     | 100                            | 70                               | 1                                   | 150  | 3.0  | 2.0   | 30                                   | 1.2                                       | 1.3  | 2                                       | 40    |
| SDA276C     | 200                            | 140                              | 1                                   | 150  | 3.0  | 2.0   | 30                                   | 1.2                                       | 1.3  | 2                                       | 40    |
| SDA276D     | 400                            | 280                              | 1                                   | 150  | 3.0  | 2.0   | 30                                   | 1.2                                       | 1.3  | 2                                       | 40    |
| SDA276E     | 600                            | 420                              | 1                                   | 150  | 3.0  | 2.0   | 30                                   | 1.2                                       | 1.3  | 2                                       | 40    |
| SDA276F     | 800                            | 560                              | 1                                   | 150  | 3.0  | 2.0   | 30                                   | 1.2                                       | 1.3  | 2                                       | 40    |
| SDA276G     | 1000                           | 700                              | 1                                   | 150  | 3.0  | 2.0   | 30                                   | 1.2                                       | 1.3  | 2                                       | 40    |

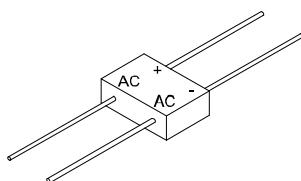
**NOTES: 1/** For Ordering Information, Price, Curves, and Availability- Contact Factory.

**2/** Screening based on MIL-PRF-19500. Screening flows available on request.

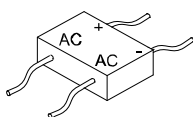
**3/** Recovery Conditions: I<sub>F</sub> = 0.5 Amp, I<sub>R</sub> = 1.0 Amp rec. to .25 Amp.

**4/** Unless Otherwise Specified, All Electrical Characteristics @25°C.

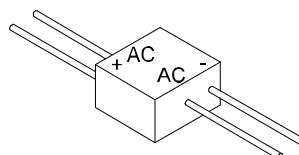
SDA276



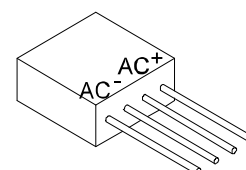
SDA276T



SDA276G



SDA276S



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

**DATA SHEET #: RA0032B**

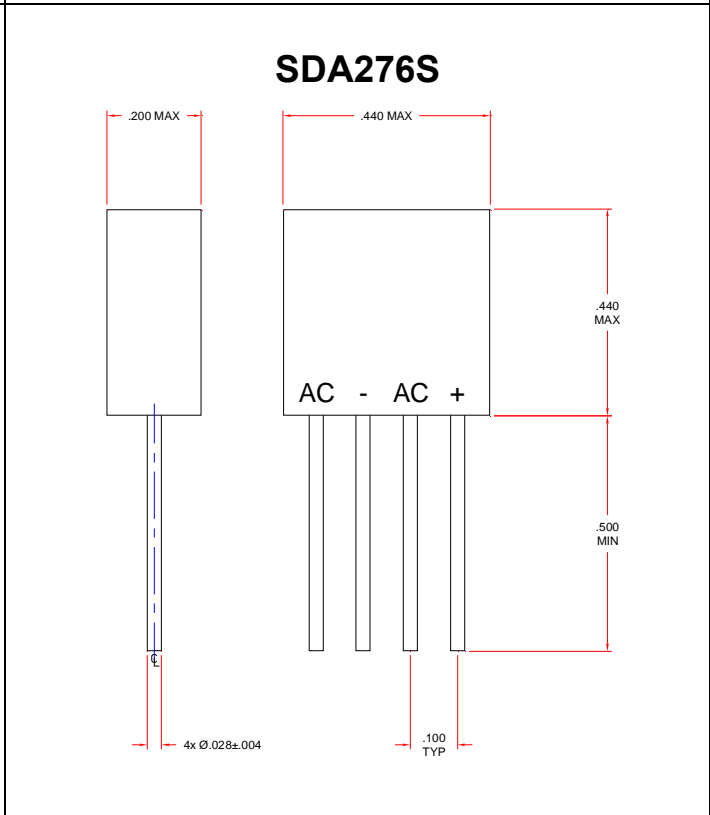
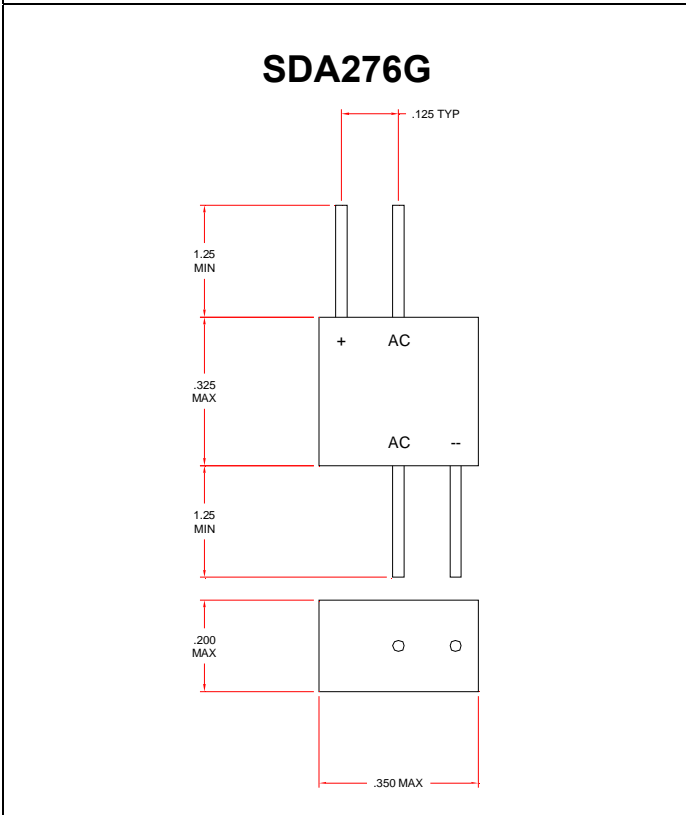
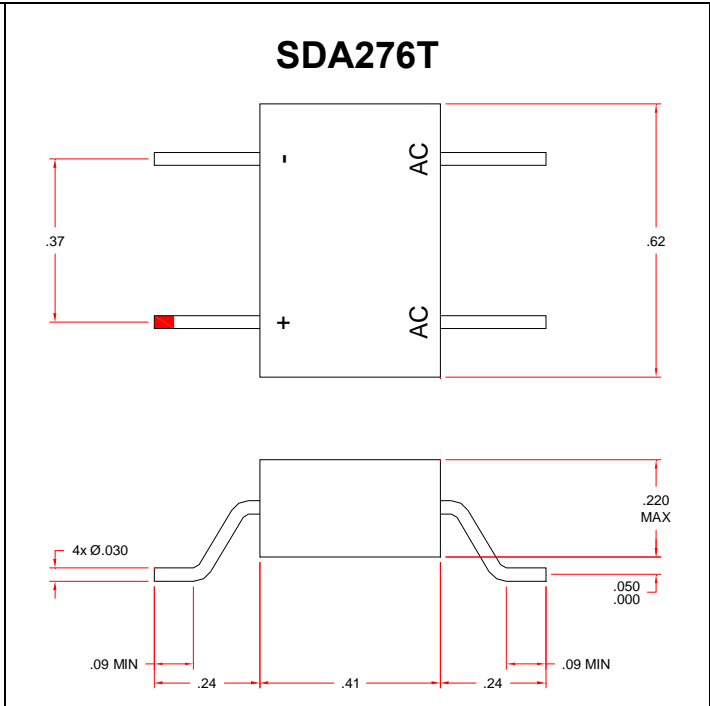
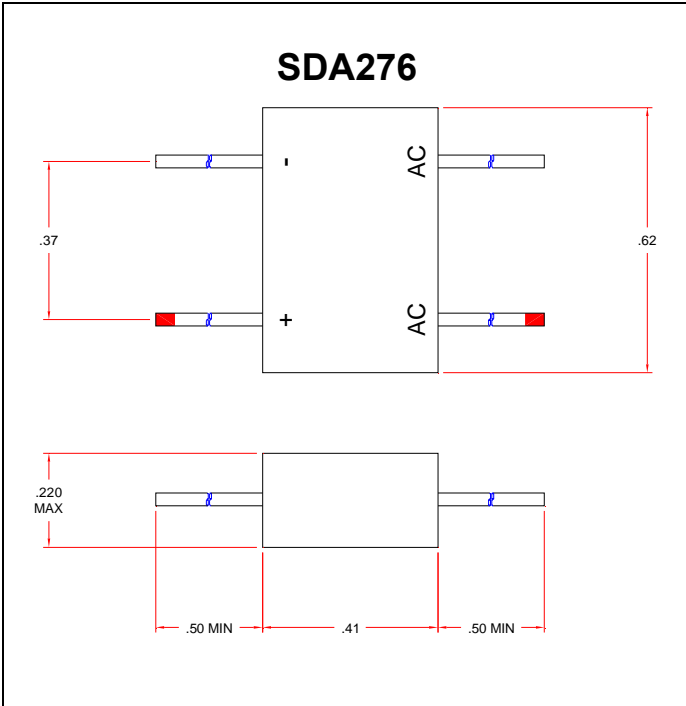
**DOC**



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