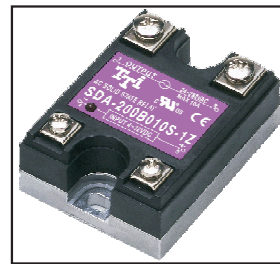


## SDA SERIES SOLID STATE RELAY

**SDA-200B010S-1Z**  
**SDA-200B015S-1Z**  
**SDA-200B025S-1Z**  
**SDA-200B040S-1Z**  
**SDA-200B050S-1Z**  
**SDA-200B075S-1Z**  
**SDA-200B090S-1Z**  
**SDA-200B100S-1Z**  
**SDA-200B125S-1Z**

## DC Control AC Loading S.S.R



## Specifications

| MODEL SERIES NO. | CONTROL VOLTAGE | MUST TURN OFF VOLTAGE | INPUT IMPEDANCE | LOADING CURRENT | LOADING VOLTAGE | MIN BLOCKING VOLTAGE | MAX OFF-STATE LEAKAGE | FREQUENCY RANGE | MAX 1-CYCLE PEAK SURGE |
|------------------|-----------------|-----------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|-----------------|------------------------|
| SDA-200B010S-1Z  | 4 - 32 VDC      | MAX 1.0 VDC           | 1.5 K $\Omega$  | 10A             | 24 ~ 280VAC     | 600VAC               | LESS 3 mA             | 47-70HZ         | 100A                   |
| SDA-200B015S-1Z  | 4 - 32 VDC      | MAX 1.0 VDC           | 1.5 K $\Omega$  | 15A             | 24 ~ 280VAC     | 600VAC               | LESS 3 mA             | 47-70HZ         | 150A                   |
| SDA-200B025S-1Z  | 4 - 32 VDC      | MAX 1.0 VDC           | 1.5 K $\Omega$  | 25A             | 24 ~ 280VAC     | 600VAC               | LESS 3 mA             | 47-70HZ         | 250A                   |
| SDA-200B040S-1Z  | 4 - 32 VDC      | MAX 1.0 VDC           | 1.5 K $\Omega$  | 40A             | 24 ~ 280VAC     | 600VAC               | LESS 3 mA             | 47-70HZ         | 400A                   |
| SDA-200B050S-1Z  | 4 - 32 VDC      | MAX 1.0 VDC           | 1.5 K $\Omega$  | 50A             | 24 ~ 280VAC     | 600VAC               | LESS 3 mA             | 47-70HZ         | 500A                   |
| SDA-200B075S-1Z  | 4 - 32 VDC      | MAX 1.0 VDC           | 1.5 K $\Omega$  | 75A             | 24 ~ 280VAC     | 600VAC               | LESS 3 mA             | 47-70HZ         | 750A                   |
| SDA-200B090S-1Z  | 4 - 32 VDC      | MAX 1.0 VDC           | 1.5 K $\Omega$  | 90A             | 24 ~ 280VAC     | 600VAC               | LESS 3 mA             | 47-70HZ         | 900A                   |
| SDA-200B100S-1Z  | 4 - 32 VDC      | MAX 1.0 VDC           | 1.5 K $\Omega$  | 100A            | 24 ~ 280VAC     | 600VAC               | LESS 3 mA             | 47-70HZ         | 1000A                  |
| SDA-200B125S-1Z  | 4 - 32 VDC      | MAX 1.0 VDC           | 1.5 K $\Omega$  | 125A            | 24 ~ 280VAC     | 600VAC               | LESS 3 mA             | 47-70HZ         | 1250A                  |

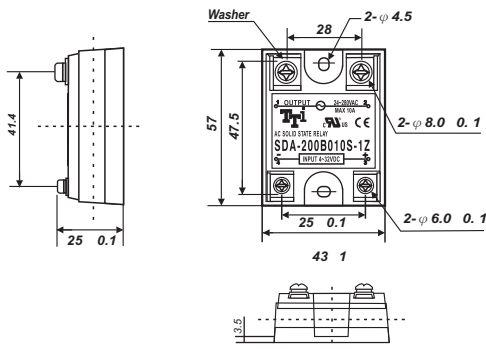
| MODEL SERIES NO. | MAX OFF STATE dv/dt | MAX ON-STATE VOLTAGE DROP | ISOLATE IMPEDENCE        | DIELECTRIC STRENGTH INPUT-OUTPUT | DIELECTRIC STRENGTH INPUT-OUTPUT-CASE | TURN ON TIME | TURN OFF TIME     | CAPACITANCE IN-OUT | WEIGHT (g) |
|------------------|---------------------|---------------------------|--------------------------|----------------------------------|---------------------------------------|--------------|-------------------|--------------------|------------|
| SDA-200B010S-1Z  | 500 V/ $\mu$ sec    | 2.0Vrms                   | 10 <sup>9</sup> $\Omega$ | 4000 VACrms                      | 4000 VACrms                           | LESS 2 msec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100 g      |
| SDA-200B015S-1Z  | 500 V/ $\mu$ sec    | 2.0Vrms                   | 10 <sup>9</sup> $\Omega$ | 4000 VACrms                      | 4000 VACrms                           | LESS 2 msec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100 g      |
| SDA-200B025S-1Z  | 500 V/ $\mu$ sec    | 2.0Vrms                   | 10 <sup>9</sup> $\Omega$ | 4000 VACrms                      | 4000 VACrms                           | LESS 2 msec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100 g      |
| SDA-200B040S-1Z  | 500 V/ $\mu$ sec    | 2.0Vrms                   | 10 <sup>9</sup> $\Omega$ | 4000 VACrms                      | 4000 VACrms                           | LESS 2 msec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100 g      |
| SDA-200B050S-1Z  | 500 V/ $\mu$ sec    | 2.0Vrms                   | 10 <sup>9</sup> $\Omega$ | 4000 VACrms                      | 4000 VACrms                           | LESS 2 msec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100 g      |
| SDA-200B075S-1Z  | 500 V/ $\mu$ sec    | 2.0Vrms                   | 10 <sup>9</sup> $\Omega$ | 4000 VACrms                      | 4000 VACrms                           | LESS 2 msec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100 g      |
| SDA-200B090S-1Z  | 500 V/ $\mu$ sec    | 2.0Vrms                   | 10 <sup>9</sup> $\Omega$ | 4000 VACrms                      | 4000 VACrms                           | LESS 2 msec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100 g      |
| SDA-200B100S-1Z  | 500 V/ $\mu$ sec    | 2.0Vrms                   | 10 <sup>9</sup> $\Omega$ | 4000 VACrms                      | 4000 VACrms                           | LESS 2 msec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100 g      |
| SDA-200B125S-1Z  | 500 V/ $\mu$ sec    | 2.0Vrms                   | 10 <sup>9</sup> $\Omega$ | 4000 VACrms                      | 4000 VACrms                           | LESS 2 msec  | LESS 1/2 AC CYCLE | LESS 15 PF         | 100 g      |

## Parts No.

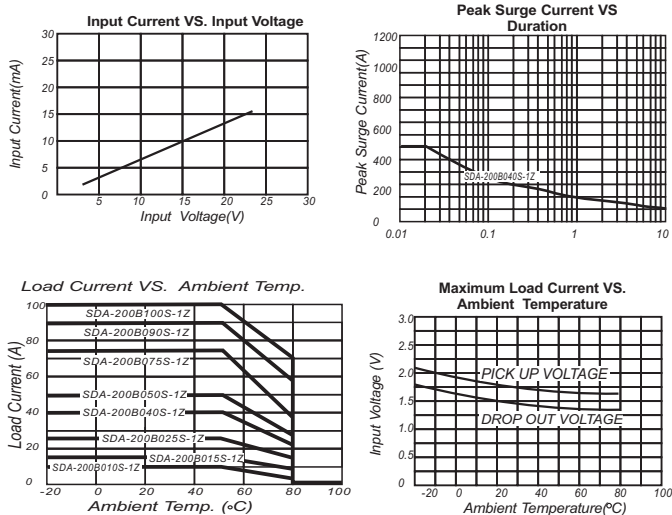
**SDA-200B010S-1Z**

Switching Type : Z = Zero Crossing  
Packing : 1 = Screw Type  
Phase : S = Single Phase  
Loading Current : 010 = 10A, 015 = 15A, 025 = 25A, 040 = 40A, 050 = 50A, 075 = 75A, 090 = 90A, 100 = 100A, 125 = 125A  
Control Voltage : B = 4-32VDC  
Loading Voltage : 200 = 24~280VAC  
Control Type : DA = DC Control AC  
S = S.S.R

## Outline Dimensions(Unit : mm)



## Characteristic Curves



## Equivalent Circuit

