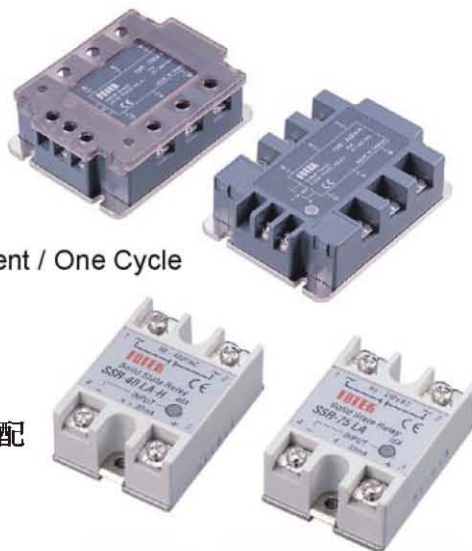


- ★ High Reliability by S.M.T. & TQC.  
( Surface Mounting Technology )
- ★ High Isolation over than 50MΩ / 500VDC
- ★ High Dielectric over than 2.5KV
- ★ Low Enable Current less than 7.5mA / 12VDC  
C MOS IC or TTL Compatible.
- ★ Low EMI / EFI & Surge by Zero Cross Trigger Method.
- ★ High Surge Current Duration Over 10 Times of Rated Current / One Cycle
- ★ High Surge Voltage Duration by Snubber Circuit.
- ★ 表面貼焊技術及全面品管，提供最可靠的 SSR
- ★ 高絕緣阻抗超過 50MΩ / 500VDC
- ★ 高耐壓超過 2.5KV
- ★ 低觸發電流小於 7.5mA / 12VDC，可與 CMOS IC 及 TTL 匹配
- ★ 零點觸發方式避免電磁 / 高頻干擾
- ★ 高耐過電流，超過 10 倍額定電流 / 一週期
- ★ 具緩衝迴路可吸收瞬間突破



## Guiding of Model

### Terminal Type

Ex. **SSR-40DA-H**

① ② ③ ④ ⑤

① **Product** 產品別

SSR: SINGLE PHASE SOLID STATE RELAY  
單相固態繼電器  
STR: THREE PHASE SOLID STATE RELAY  
三相固態繼電器

② **Output Current** 輸出電流

10 : 10A    25 : 25A  
40 : 40A    50 : 50A

75 : 75A

③ **Input Voltage** 輸入方式

D: DC 3W ~ 32V < ON/OFF >  
A: AC 80 ~ 250V < ON/OFF >  
L: 4 ~ 20mA (linear)  
V: VARIABLE RESISTER

④ **Output Voltage** 輸出電壓

A: AC VOLTAGE  
D: DC VOLTAGE

⑤ **Output Voltage Range** 輸出電壓範圍

H : High Voltage Type < 90 ~ 480VAC >  
Non: Standard Type < 24 ~ 380VAC >

### PCB Type

Ex. **SSR-P03DA**

① ② ③ ④ ⑤

① **Product** 產品別

SSR : SINGLE PHASE SOLID STATE

② **Mounting Method** 固定方式

PCB: PCB TYPE

③ **Output Current** 輸出電流

03 = 3A  
05 = 5A

④ **Input Method** 輸入方式

D : DC VOLTAGE

⑤ **Output Voltage** 輸出電壓

D : DC 5 ~ 60V  
A : AC 24 ~ 280V

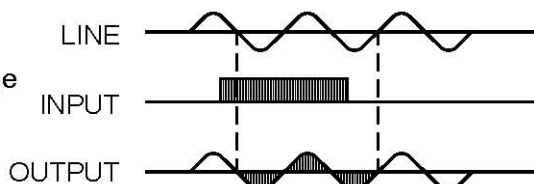
## Control Method

### Zero Cross Trigger Method

Output TURN ON or TURN OFF only on Zero Cross Point of sine wave , may avoid surge or EMI / RFI occurring.

Specially suited to control resistive , capacitive and Non - saturated inductive loads.

輸出只在正弦波的零點才會動作或復歸，可避免生突波或 EM / RFI，特別適於控制阻抗性，電容性和不飽和感抗性等負載。

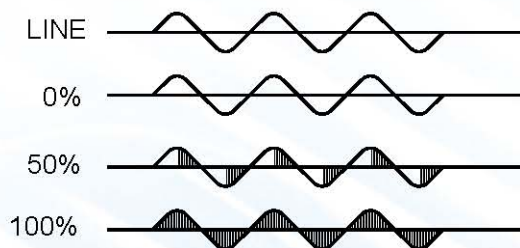


## Variable Resistance Control Method

### < Trimmer Control Method >

Power Output is Controlled by the Trigger Angle of Triac with Variable Resistor 250K  $\Omega$  /110VAC, 500K  $\Omega$  /220VAC

輸出功率以可變電阻 250K  $\Omega$  /110VAC, 500K  $\Omega$  /220VAC 控制 Triac 觸發角決定輸出功率。



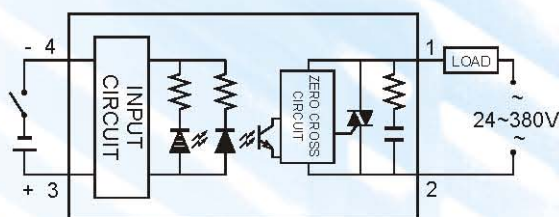
## Application Hints

| Input | NPN | Output | NO | Input | PNP | Output | NO | Input                      | L.S. | Output | NO |
|-------|-----|--------|----|-------|-----|--------|----|----------------------------|------|--------|----|
|       |     |        |    |       |     |        |    |                            |      |        |    |
| Input | NPN | Output | NC | Input | PNP | Output | NC | Latch Circuit ( AC to AC ) |      |        |    |
|       |     |        |    |       |     |        |    |                            |      |        |    |



## ■ Specification

| Type                      | Terminal Type              |            |            |            |            | PCB Type  |
|---------------------------|----------------------------|------------|------------|------------|------------|-----------|
| Model                     | SSR-10DA                   | SSR-25DA   | SSR-40DA   | SSR-25DA-H | SSR-40DA-H | SSR-P03DA |
| Rated Load Current        | <b>10A</b>                 | <b>25A</b> | <b>40A</b> | <b>25A</b> | <b>40A</b> | <b>3A</b> |
| <b>Input Data</b>         |                            |            |            |            |            |           |
| Operating Voltage         | 3~32VDC                    |            |            |            |            |           |
| Min. ON / OFF Voltage     | ON > 2.4V , OFF < 1.0V     |            |            |            |            |           |
| Trigger Current           | 7.5mA / 12V                |            |            |            |            |           |
| Control Method            | Zero Cross Trigger         |            |            |            |            |           |
| <b>Output Data</b>        |                            |            |            |            |            |           |
| Operating Voltage         | 24~380VAC                  |            | 90~480VAC  |            | 24~380VAC  |           |
| Min. Black Voltage        | 600 VAC < Repetive >       |            |            |            |            |           |
| Voltage Drop              | 1.6 V / 25 C               |            |            |            |            |           |
| Max. Durated Current      | 135A                       | 275A       | 410A       | 275A       | 410A       | 135A      |
| Leakage Current           | 3.0mA                      | 3.0mA      | 3.0mA      | 5.0mA      | 5.0mA      | 3.0mA     |
| Response Time             | ON < 10ms , OFF < 10ms     |            |            |            |            |           |
| <b>General Data</b>       |                            |            |            |            |            |           |
| Dielectric Strength       | Over 2.5KVAC / 1min.       |            |            |            |            |           |
| Isolation Strength        | Over 50M $\Omega$ / 500VDC |            |            |            |            |           |
| Operating Temperature     | -20 C ~+80 C               |            |            |            |            |           |
| Housing Material          | Intensive ABS              |            |            |            |            |           |
| Weight                    | Appr. 105g                 |            |            |            |            | Appr. 15g |
| <b>Connection Diagram</b> |                            |            |            |            |            |           |



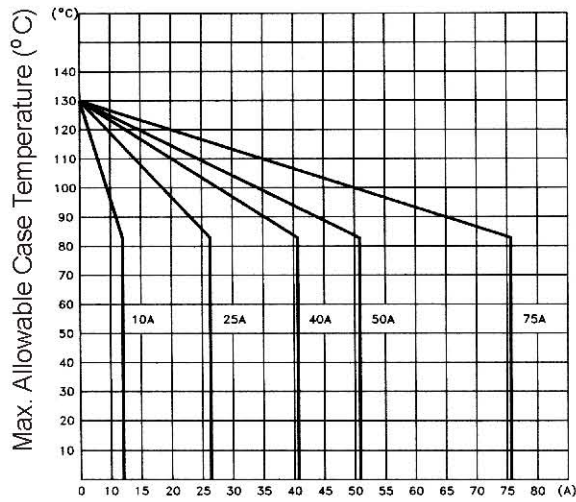
# FOTEK SSR SERIES HIGH CURRENT DC TO AC SOLID STATE RELAY

## Specification

| Type                         | Terminal Type       |           |            |            |
|------------------------------|---------------------|-----------|------------|------------|
| Model                        | SSR-50DA            | SSR-75DA  | SSR-50DA-H | SSR-75DA-H |
| Rated Load Current           | 50A                 | 75A       | 50A        | 75A        |
| Input Data                   |                     |           |            |            |
| Operating Voltage            | 3~32VDC             |           |            |            |
| Min. ON / OFF Voltage        | ON>2.4V , OFF<1.0V  |           |            |            |
| Trigger Current              | 7.5mA / 12V         |           |            |            |
| Control Method               | Zero Cross Trigger  |           |            |            |
| Operating Data               |                     |           |            |            |
| Operating Voltage            | 24~380VAC           | 90~480VAC |            |            |
| Min. Blocking Voltage        | 600 VAC<Repetitive> |           |            |            |
| Voltage Drop                 | 1.6V / 25°C         |           |            |            |
| Max. Duratde Current         | 550A                | 820A      | 550A       | 820A       |
| Leakage Current Max.         | 6.0mA               | 6.0mA     | 6.0mA      | 6.0mA      |
| Response Time                | ON<10ms , OFF<10ms  |           |            |            |
| General Data                 |                     |           |            |            |
| Dielectric Strength          | Over 2.5KVAC/1min.  |           |            |            |
| Isolation Strength           | Over 50M Ω / 500VDC |           |            |            |
| Operating Temperature        | -20°C ~+80°C        |           |            |            |
| Housing Material             | Intensive ABS       |           |            |            |
| Weight                       | Appr.125g           |           |            |            |
| Connection Diagram/Dimension |                     |           |            |            |
|                              |                     |           |            |            |

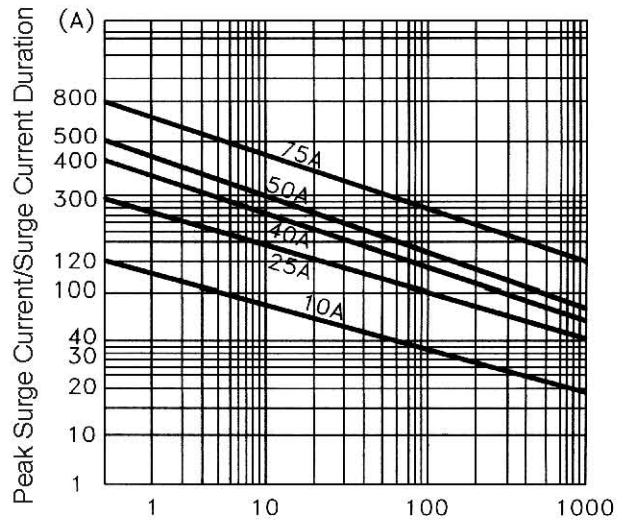
## Curve of Characteristic

**Max. Allowable Case Temperature**  
最高容許表面溫度



ON State Current (A) 動作電流

**Peak Surge Current/Surge Current Duration**  
衝擊電流/承受次數



Surge Current Duration (Full cycles)

## Dimension

| Terminal Type | PCB Type |
|---------------|----------|
|               |          |

■ Dimension < Heat Sink >

