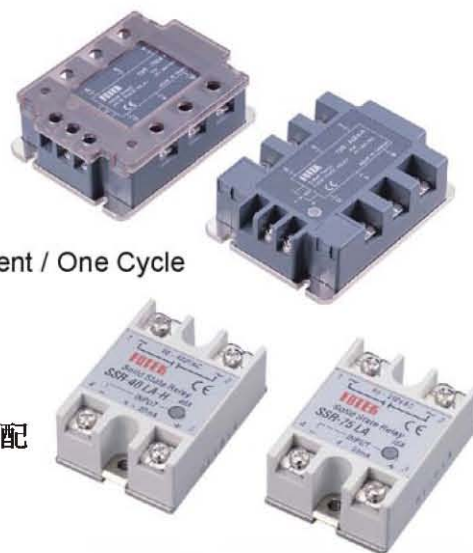


- ★ High Reliability by S.M.T. & TQC.  
( Surface Mounting Technology )
- ★ High Isolation over than 50MΩ / 500VDC
- ★ High Dielectric over than 2.5KV
- ★ Low Enable Current less than 7.5mA / 12VDC  
C MOS IC or TTL Compatible.
- ★ Low EMI / EFI & Surge by Zero Cross Trigger Method.
- ★ High Surge Current 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質管，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- 40 D A-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:DC3W~32V<ON/OFF>  
A:AC80~250V<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 -P 03 D A

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

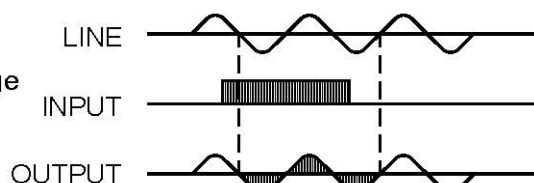
### Zero Cross Trigger Method

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。

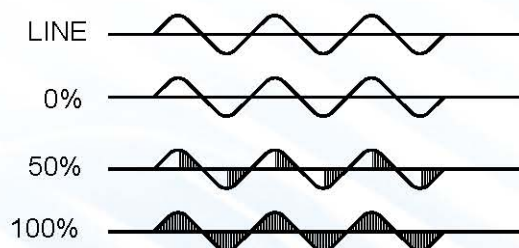


## Variable Resistance Control Method

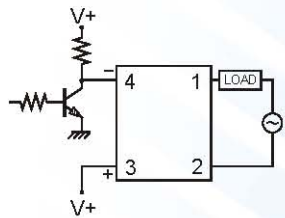
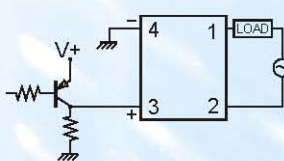
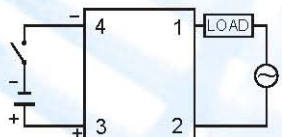
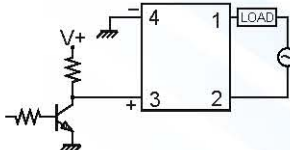
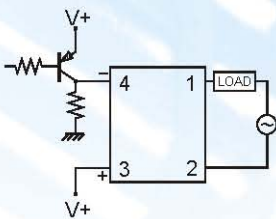
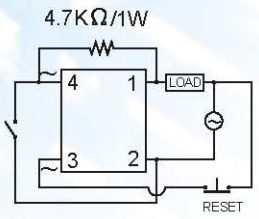
### < Trimmer Control Method >

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。

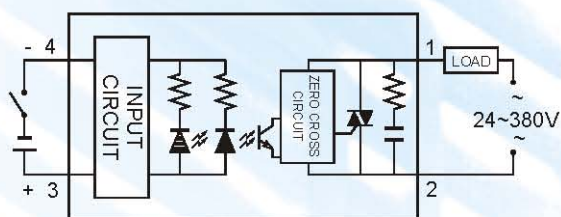


## Application Hints

| 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 )                                                            |      |        |    |
|  |     |        |    |  |     |        |    |  |      |        |    |

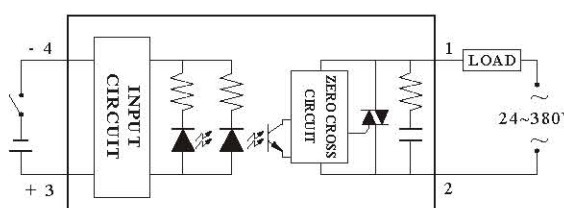
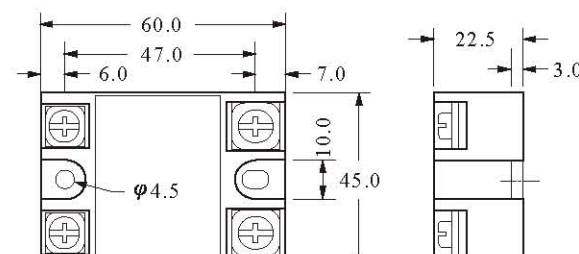
## ■ Specification

| Type                  | Terminal Type          |          |          |            |            | PCB Type  |
|-----------------------|------------------------|----------|----------|------------|------------|-----------|
| Model                 | SSR-10DA               | SSR-25DA | SSR-40DA | SSR-25DA-H | SSR-40DA-H | SSR-P03DA |
| Rated Load Current    | 10A                    | 25A      | 40A      | 25A        | 40A        | 3A        |
| 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     |          |          |            |            |           |
| Output Data           |                        |          |          |            |            |           |
| 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 |          |          |            |            |           |
| General Data          |                        |          |          |            |            |           |
| Dielectric Strength   | Over 2.5KVAC / 1min.   |          |          |            |            |           |
| Isolation Strength    | Over 50MΩ / 500VDC     |          |          |            |            |           |
| Operating Temperature | -20 C ~+80 C           |          |          |            |            |           |
| Housing Material      | Intensive ABS          |          |          |            |            |           |
| Weight                | Appr. 105g             |          |          |            |            | Appr. 15g |
| Connection Diagram    |                        |          |          |            |            |           |



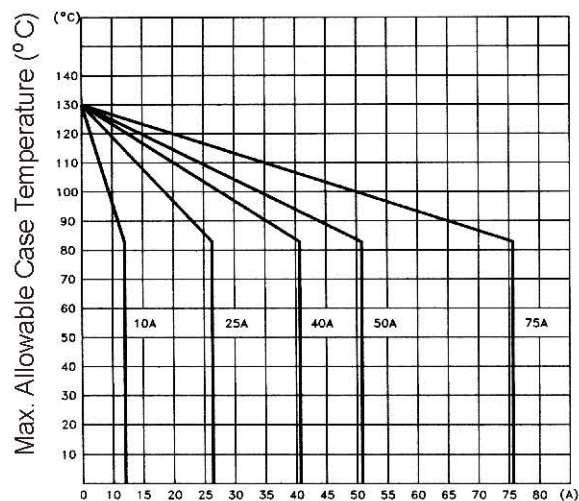
# FOTEK SSR SERIES HIGH CURRENT DC TO AC SOLID STATE RELAY

## ■ 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℃          |                                                                                      |            |            |
| 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℃ ~+80℃          |                                                                                      |            |            |
| Housing Material                                                                    | Intensive ABS       |                                                                                      |            |            |
| Weight                                                                              | Appr.125g           |                                                                                      |            |            |
| Connection Diagram/Dimension                                                        |                     |                                                                                      |            |            |
|  |                     |  |            |            |

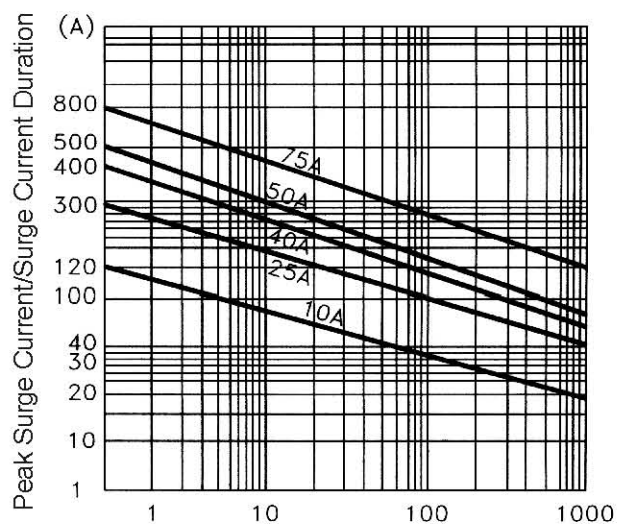
## Curve of Characteristic

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



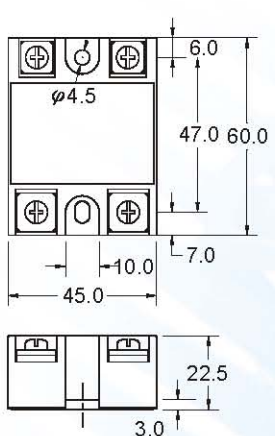
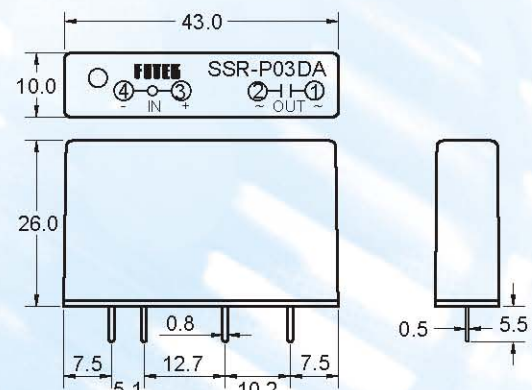
ON State Current (A) 動作電流

**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 >

