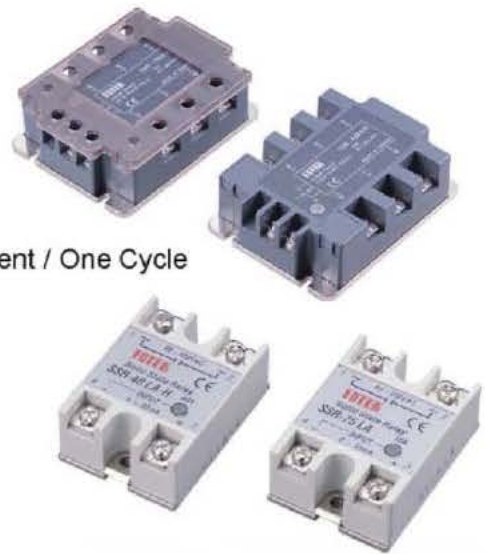


- ★ High Reliability by S.M.T. & TQC.  
( Surface Mounting Technology )
- ★ High Isolation over than 50MΩ / 500VDC
- ★ High Dielectric over than 2.5KV
- ★ Low Enable Current less than 7.5mA / 12VDC  
C MOS IC or TTL Compatible.
- ★ Low EMI / EMI & Surge by Zero Cross Trigger Method.
- ★ High Surge Current Duration Over 10 Times of Rated Current / One Cycle
- ★ High Surge Voltage Duration by Snubber Circuit.



## ■ Guiding of Model

### Terminal Type

**Ex. SSR-40 D A-H**

① ② ③ ④ ⑤

- ① Product ,  
SSR: SINGLE PHASE SOLID STATE RELAY  
STR: THREE PHASE SOLID STATE RELAY

- ② Output Current  
10 : 10A    25 : 25A  
40 : 40A    50 : 50A  
75 : 75A

- ③ Input Voltage  
D: DC3W~32V<ON/OFF>  
A: AC80~250V<ON/OFF>  
L: 4~20mA(linear)  
V: VARIABLE RESISTER

- ④ Output Voltage  
A: AC VOLTAGE  
D: DC VOLTAGE

- ⑤ Output Voltage Range |  
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 \_\_\_\_\_  
SSR : SINGLE PHASE SOLID STATE

- ② Mounting Method  
PCB: PCB TYPE

- ③ Output Current  
03 = 3A  
05 = 5A

- ④ Input Method  
D : DC VOLTAGE

- ⑤ Output Voltage  
D : DC 5 ~ 60V  
A : AC 24 ~ 280V

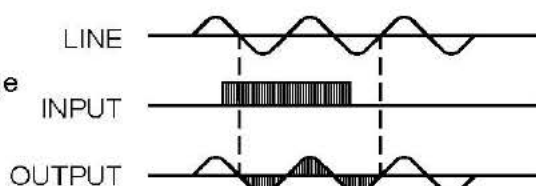
## Control Method

### 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.

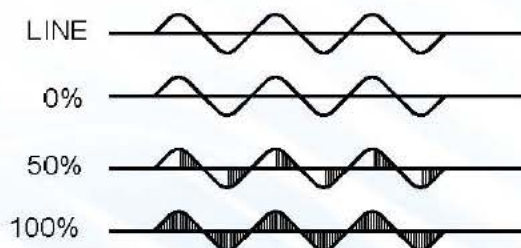
Specially suited to control resistive , capacitive and Non - saturated inductive loads.



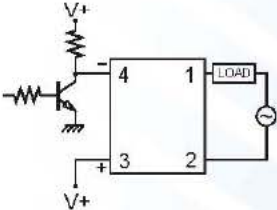
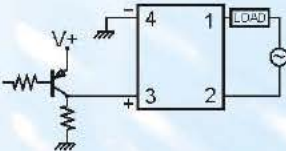
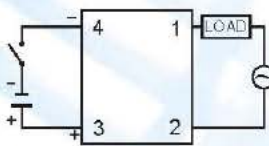
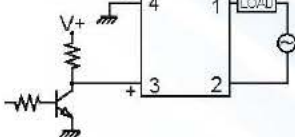
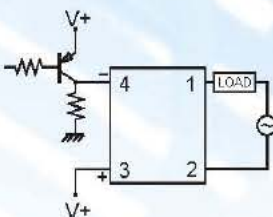
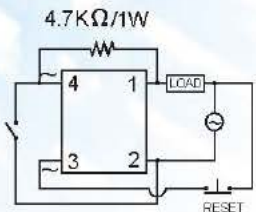
### Variable Resistance Control Method

#### < Trimmer Control Method >

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

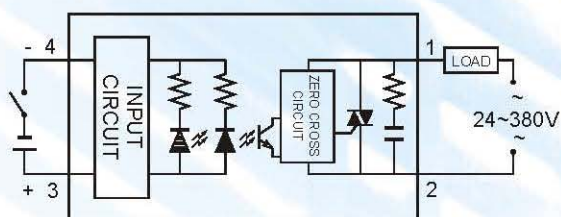


## Application Hints

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						





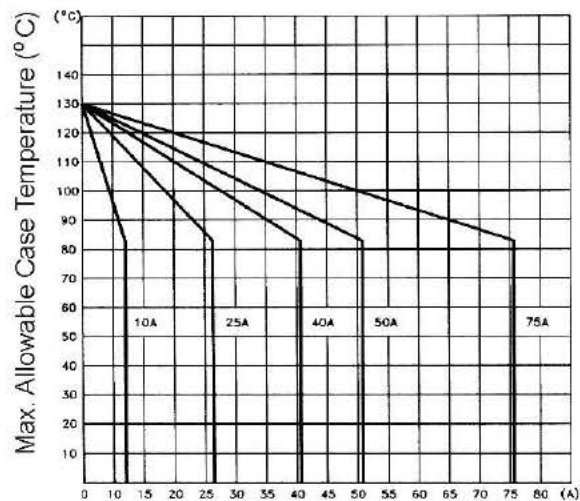
# FOTEK SSR SERIES HIGH CURRENT DC TO AC SOLID STATE RELAY

## ■ 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				
				

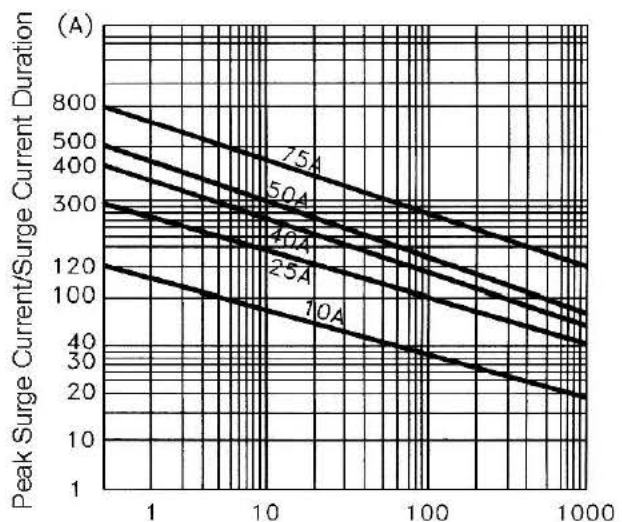
## Curve of Characteristic

Max. Allowable Case Temperature



ON State Current (A)

Peak Surge Current/Surge Current Duration



Surge Current Duration (Full cycles)

## Dimension

Terminal Type	PCB Type
<p>Diagram showing the dimensions of the terminal type. The main body is 45.0 wide and 60.0 high. The top section has a diameter of <math>\phi 4.5</math> and a height of 6.0. The bottom section has a height of 7.0. The overall height is 47.0. The bottom flange is 22.5 high and 3.0 wide.</p>	<p>Diagram showing the dimensions of the PCB type. The main body is 43.0 wide and 26.0 high. The top section has a height of 10.0. The bottom section has a height of 5.5. The overall height is 31.5. The bottom flange is 0.5 wide and 5.5 high. The bottom flange has a width of 7.5, a central gap of 5.1, and a distance of 12.7 between the gaps. The bottom flange has a width of 10.2 and a distance of 7.5 from the edge.</p>

## ■ Dimension < Heat Sink >

