

Features

DC input - AC output 2A load
Photo isolation
600V blocking voltage
2,000V dielectric strength
Zero cross or random turn-on
PCB mounting



Ordering information

FSS1 - 101 Z DC12V

1 2 3 4

1 Relay model
2 Terminal arrangement: 101: Type 1; 102: Type 2
3 Zero cross function: NIL: Random turn-on;
Z : Zero-cross turn-on

4 Rated voltage
Note: RoHS : RoHS compliant relay

Input rating (at +25°C)

Rated voltage (V)	Control voltage range (V DC)	Operate voltage (V DC)	Input resistance (Ω)	Release voltage (V DC)	Input current (mA)
5	4 - 6	4.0	330		
12	9.6 - 14.4	9.6	1000	1	15 Max.
24	19.2 - 28.8	19.2	2000		

Output (at +25°C)

Load voltage range	48-280VAC
Load current range	0.1-2A
Max. surge current (10ms)	25A _{pk}
Max. $I^2 t$ for fusing (10ms, A ² s)	3.1
Max. leakage current	1.5mA
Max. on-state voltage drop	1.5V _{rms}

Max. turn-on time	Zero cross Random	½ cycle + 1ms 1ms
Max. turn-off time		½ cycle + 1ms
Max. transient over voltage		600V _{pk}
Min. off-state (dv/dt)		100V/ μ s
Max. zero-cross over voltage		±15V
Min. power factor		0.5

Characteristics

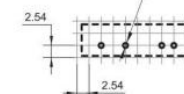
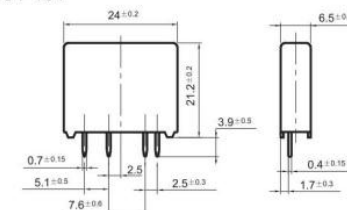
Dielectric strength	2,000VAC 50/60Hz/min (input to output)
Insulation resistance	1,000M Ω Min. (500VDC)
Max. capacitance	5pF (input to output)
Contact rating (resistive)	0.5A 125VAC / 2A 30VDC
Vibration resistance	1.5mm Double amplitude 10-55Hz
Shock resistance	980m/s ²
Ambient temperature	Operating: -30°C to +80°C Storage : -30°C to +100°C
Humidity	45% - 85% RH
Weight	6g Approx.

(Specifications are subject to change without notices.)

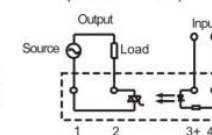
Dimensions

mm

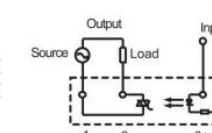
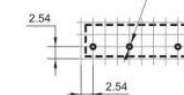
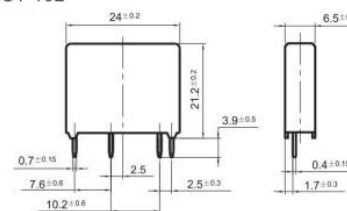
FSS1-101



Wiring diagram (Bottom view)

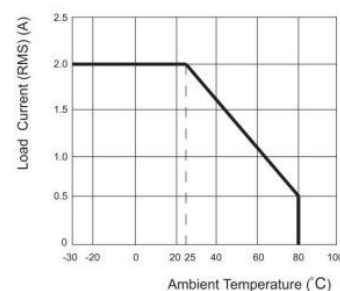


FSS1-102



Reference data

Max. Load Current vs. Ambient Temperature



Max. Permissible Non-repetitive Peak Surge Current vs. Continuance Time

