Solid State Relay (Single Phase AC Output)	KSFA

Features

- Load current: 3A@24-440VAC
- Control voltage: 5VDC, 12VDC, 24VDC
- High surge current ability
- Dielectric strength: ≥4000VACrms
- PCB mounted
- RoHS compliant

1. DESCRIPTION

KSFA series is PCB mounted AC output solid state relay. Small volume with high surge current ability, load voltage is 240VAC and 380VAC.

2. APPLICATION

Suitable for various occasions circuit signal lamp, mining lights, electromagnetic valve, motor, heater, vending machines, medical equipment, elevators and electric control door etc.

3. IMPORTANT NOTICE

1) Soldering must be finished within 10 seconds at 250℃, and finished within 5 seconds at 350℃.
2) Terminal polarity to ensure proper control, or may damage the product.

4. TECHNICAL SPECIFICATION

1) Input Circuit

Control Voltage Range	5VDC	4-6VDC
	12VDC	9-15VDC
	24VDC	19-32VDC
Minimum Turn-on Voltage	5VDC	4VDC
	12VDC	9VDC
	24VDC	19VDC
Minimum Turn-off Voltage		1.0VDC
Maximum Input Current		15mA

2) Output Circuit

Load Voltage Range	240VAC	24-280VAC
	380VAC	24-440VAC
Transient Overvoltage		800Vpk
Load Current Range		0.1-3A
Maximum Surge Current [@10ms]		100A
Maximum Turn-on Time	Random-on	1ms
	Zero Crossing	10ms
Maximum Turn-off Time		10ms
Maximum Off-state Leakage Current [@Rated Voltage]	Without RC	1mA
	With RC	3mA
Maximum On-state Voltage Drop [@Rated Current]		1.5Vrms
Minimum Off-state dv/dt [@Maximum Rated Voltage]		200V/μs

3) General Information

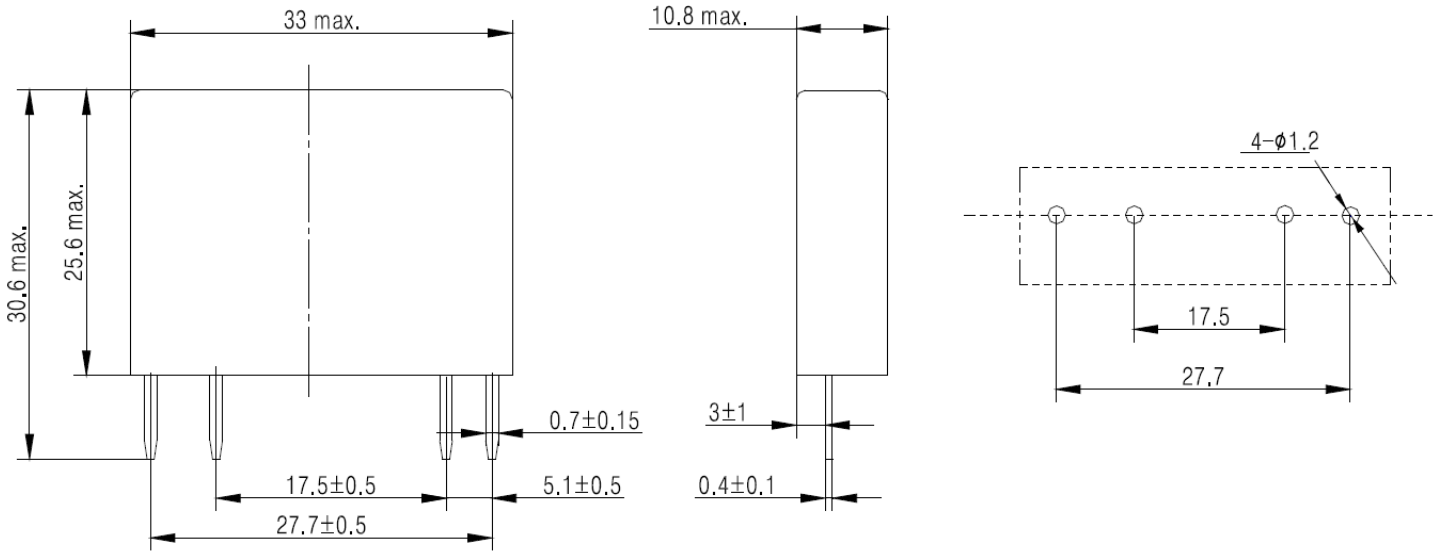
Dielectric Strength, Input/Output [50/60Hz]	≥4000VACrms
Ambient Operating Temperature Range	-30℃ ~ +80℃
Ambient Storage Temperature Range	-30℃ ~ +100℃
Weight [Typical]	20g

5. ORDERING INFORMATION

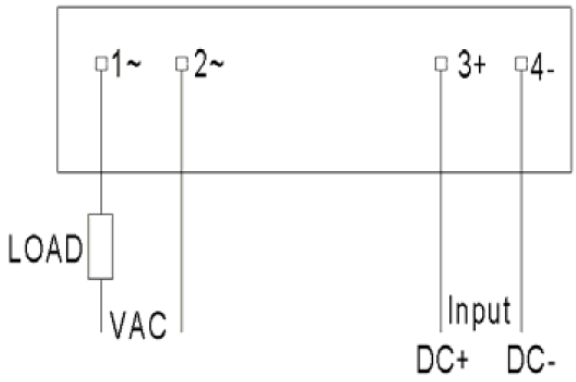
KSFA	380	D	3	R	-24	N
①	②	③	④	⑤	⑥	⑦

① Relay Model	KSFA
② Load Voltage	240: 240VAC 380: 380VAC
③ Control	D: DC control
④ Load Current	3: 3Amp
⑤ Switching Mode	None: Zero crossing R: Random-on
⑥ Control Voltage	5: 5VDC 12: 12VDC 24: 24VDC
⑦ RC	None: With RC N: Without RC

6. INSTALLATION



7. WIRING DIAGRAM



8. THERMAL CURVE