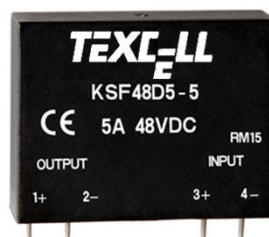


Solid State Relay (Single Phase DC Output)

KSF

Features

- Opto-isolation
- Load current: 0.1A-5A@48VDC, 100VDC
- Control voltage: 4-6VDC, 9-15VDC, 19-32VDC, 4-32VDC
- Dielectric strength: $\geq 2500\text{VACrms}$
- PCB mounted
- RoHS compliant



1. DESCRIPTION

KSF series is printed board mounted DC output solid state relay. Compact size. High inrush current. Control is DC voltage with 5VDC, 12VDC and 24VDC. Load voltage is with 48VDC and 100VDC.

2. APPLICATION

Suitable for control and isolation between control signal and high current as interface, widely used in industry automation and different kinds of DC motor, DC power supply, electromechanical device etc.

3. IMPORTANT NOTICE

- 1) Soldering must be finished within 10 seconds at 250°C , and finished within 5 seconds at 350°C .
- 2) Terminal polarity to ensure proper control, or may damage the product.
- 3) The product is electrostatic sensitive devices, during the installation process, personnel and equipment must be electrostatic protection, otherwise may damage the product.

4. TECHNICAL SPECIFICATION

1) Input Circuit

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

2) Output Circuit

Load Voltage Range	48VDC	0-60VDC
	100VDC	0-100VDC
Transient Overvoltage	48VDC	66Vpk
	100VDC	110Vpk
Load Current Range		0.1-5A
Maximum Surge Current [@10ms]		20A
Maximum Turn-on Time		0.5ms
Maximum Turn-off Time		1ms
Maximum Off-state Leakage Current [@Rated Voltage]		0.1mA
Maximum On-state Voltage Drop [@Rated Current]		1.5VDC

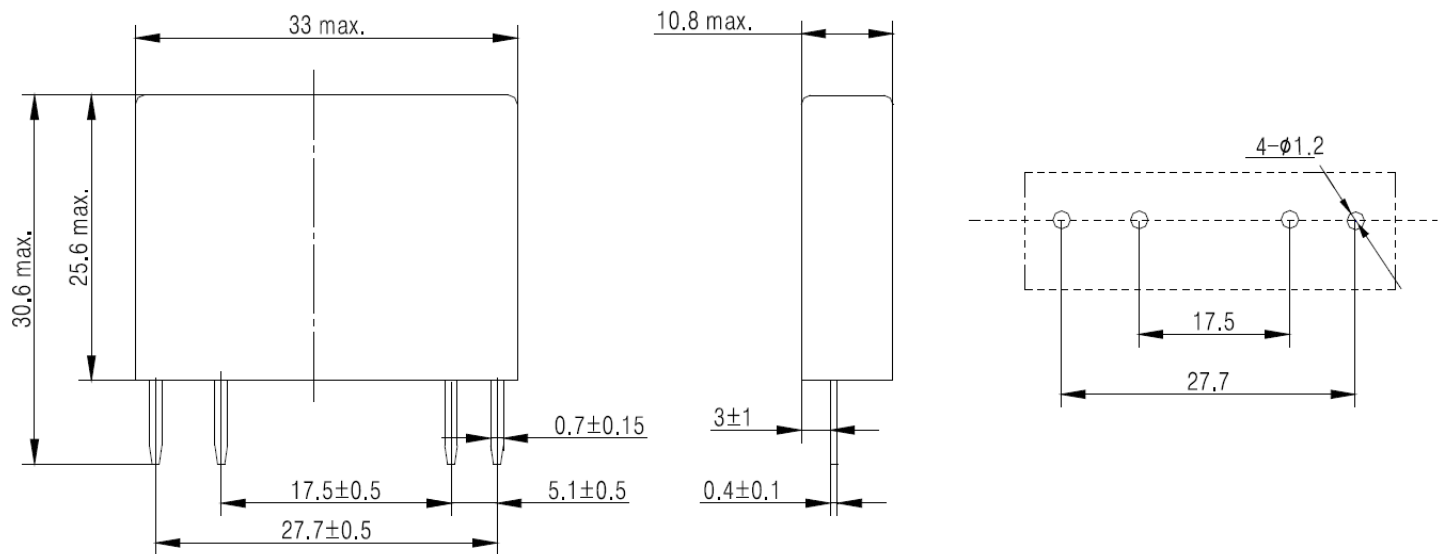
3) General Information

Dielectric Strength, Input/Output [50/60Hz]	≥2500VACrms
Ambient Operating Temperature Range	-30℃ ~ +80℃
Ambient Storage Temperature Range	-30℃ ~ +100℃
Weight [Typical]	20g

5. ORDERING INFORMATION

<u>KSF</u> <u>48</u> <u>D</u> <u>5</u> <u>-24</u> ① ② ③ ④ ⑤	
① Relay Model	KSF
② Load Voltage	48: 48VDC 100: 100VDC
③ Control	D: DC control
④ Load Current	5: 5Amp
⑤ Control Voltage	5: 5VDC 12: 12VDC 24: 24VDC W: 4-32VDC

6. INSTALLATION



7. THERMAL CURVE

