

DESCRIPTION

KS27 is a set of SPST-NO DC output PCB mount SIP type SSR with three input options 5VDC, 12VDC and 24VDC and two options of output load voltage 50VDC and 100VDC for selection. It can realize the isolation and control of strong current by using the weak current and the level transition as well. The SSR has been widely applied to the industrial automation fields, such as various DC motors, DC power supplies, electromagnetic devices, intelligent instruments, etc., and it also can be used as the driver for all high power output devices under damp corrosive and explosion proofing conditions.

FEATURES

- ◆ Bipolar transistor output
- ◆ Photoelectric isolation
- ◆ Dielectric strength 2500V
- ◆ Single-in-line PCB mount

PRECAUTIONS

1. Soldering must be completed within 10s at 260°C or 5s at 350°C.
2. The SSR's case serves to dissipate the heat generated by the SSR itself. If poor ventilation is unavoidable, the load current must be derated. Please refer to the curve of Max. Load Current vs. Ambient Temperature for derating.
3. Please do not use the SSR exceeding the limitation which is specified on this datasheet.

SELECTION GUIDE

KS27 /	5-	50T	2	(XXX)
Type	Control voltage 5: 5VDC 12: 12VDC 24: 24VDC	Load voltage 50T: 50VDC 100T: 100VDC	Load current 2: 2A	Customer special code

INPUT SPECIFICATIONS (Ta = 25°C)

Control voltage range	5	4 ~ 6VDC
	12	9.6 ~ 14.4VDC
	24	19.2 ~ 28.8VDC
Must turn-on voltage	5	4VDC
	12	9.6VDC
	24	19.2VDC
Must turn-off voltage		1VDC
Max. input current	5	25mA
	12	25mA
	24	25mA
Input resistance	5	250Ω
	12	720Ω
	24	1.64kΩ

OUTPUT SPECIFICATIONS (Ta = 25°C)

	□-50T2	□-100T2
Load voltage range	3 ~ 60VDC	3 ~ 100VDC
Max. transient voltage	60Vpk	100Vpk
Load current range		0.1 ~ 2A
Max. surge current (10ms)		8Apk
Max. on-state voltage drop		1.5VDC
Max. off-state leakage current		0.1mA
Max. turn-on time		0.5ms
Max. turn-off time		1ms

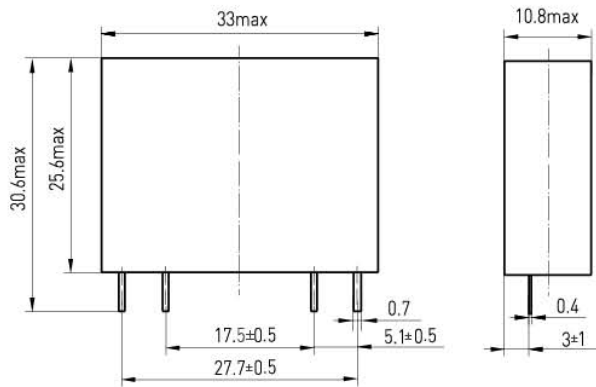
GENERAL SPECIFICATIONS (Ta = 25°C)

Dielectric strength (input/output)		2500VAC, 50~60Hz, 1min
Insulation resistance (input/output)		1000MΩ (500VDC)
Max. capacitance (input/output)		8pF
Shock resistance		Acceleration 980m/s ²
		Continuous surge 6ms
Vibration resistance		10 ~ 55Hz, 1.5mm, DA
Ambient humidity		45% ~ 85% RH
Operating temperature		-30 ~ 85°C
Storage temperature		-30 ~ 100°C
Unit weight		Approx. 20g

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT

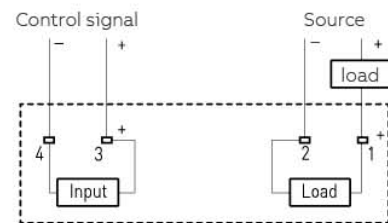
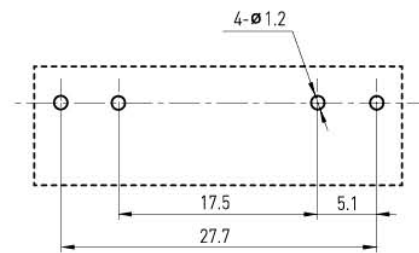
Unit: mm

Outline Dimensions



PCB Layout

(Bottom view)



Wiring Diagram

CHARACTERISTIC CURVES

Max. Load Current vs. Ambient Temperature

