



DESCRIPTION

KS32 is a set of SPST-NO DC output PCB or Socket mount Mini-SIP type SSR. The SSR has four DC input options 5VDC, 12VDC, 24VDC and 60VDC for selection and provides 2500Vrms photoelectric isolation between input and output. Pins of the SSR are fully compatible with standard packaged electromechanical relays, thus it will be very convenient for users to install and use.

FEATURES

- ◆ Mini SIP type SSR, PCB or socket mount
- ◆ Photoelectric isolation, dielectric strength 2500VAC
- ◆ Load current up to 100mA
- ◆ Pin-compatible with standard package EMR
- ◆ TTL and CMOS compatible
- ◆ I/O modules for interface between PLC and input devices or loads

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

KS32 /	24-	48D	R1	N	(XXX)
Type	Control voltage	Load voltage	Load current	RC snubber	Customer special code
	5: 5VDC 12: 12VDC 24: 24VDC 60: 60VDC	48D: 48VDC	R1: 100mA	N: Not included	

INPUT SPECIFICATIONS (Ta = 25°C)

Control voltage range	5	4 ~ 6VDC
	12	9.6 ~ 14.4VDC
	24	19.2 ~ 28.8VDC
	60	48 ~ 72VDC
Must turn-on voltage	5	4VDC
	12	9.6VDC
	24	19.2VDC
	60	48VDC
Must turn-off voltage	5	1VDC
	12	3VDC
	24	10VDC
	60	20VDC
Max. input current		15mA
Max. reverse protection voltage	5	-6VDC
	12	-14.4VDC
	24	-28.8VDC
	60	-60VDC

OUTPUT SPECIFICATIONS (Ta = 25°C)

Load voltage range	3 ~ 57.6VDC
Max. transient voltage	58VDC
Max. load current	100mA
Max. off state leakage current	200μA
Max. on-state voltage drop	1.2VDC
Max. turn-on time	100μs
Max. turn-off time	1000μs

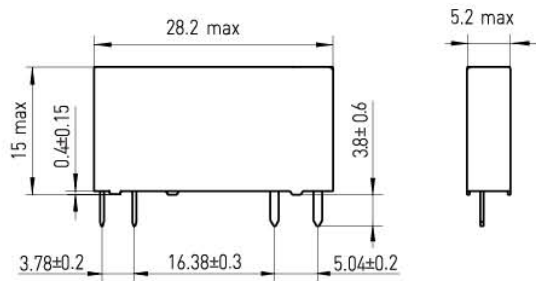
GENERAL SPECIFICATIONS (Ta = 25°C)

Dielectric strength (input/output)	2500VAC, 1min	
Insulation resistance	1000MΩ (500VDC)	
Vibration resistance	10~ 55Hz, 1.5mm, DA	
Ambient temperature	Operating temperature	-30 ~ 80°C
	Storage temperature	-30 ~ 100°C
Ambient humidity	45% ~ 85% RH	
Unit weight	Approx. 4g	
Shock resistance	Acceleration 980m/s ² , continuous surge 6ms	

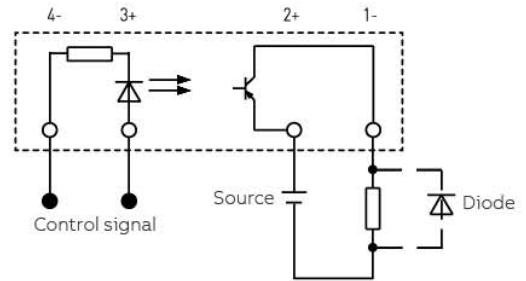
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT

Unit: mm

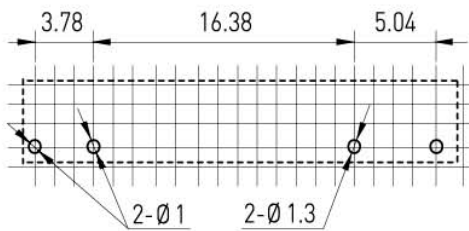
Outline Dimensions



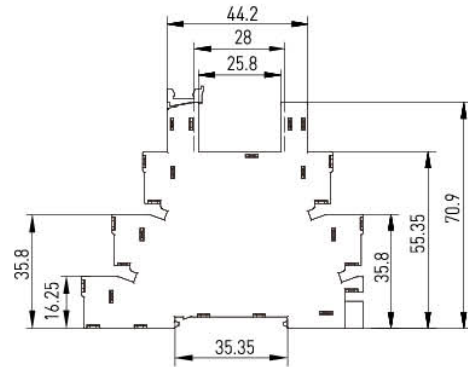
Wiring Diagram



PCB Layout(Bottom view)



Socket Layout



Socket Model: KRS32/V-SC-1 (Input 5/12/24V)
KRS32/V-SC-2 (Input 60V)

CHARACTERISTIC CURVES

Max. Load Current
vs. Ambient Temperature
KS32/□□-48DR1N Type

