

DESCRIPTION

KS40 is a set of SPST-NO DC output PCB mount DIP type SSR. The SSR has three DC input options 5VDC, 12VDC and 24VDC for selection and includes an LED indicator to display working status. And its rated output current is 2A and it has two output voltage options 50VDC and 100VDC, providing photoelectric isolation between input and output with dielectric strength 2500V.

KS40 can realize the isolation and control of strong current by using the weak current and the level transition as well, and can be easily connected to computer and a variety of digital circuit interfaces. The SSR has been widely applied to the industrial automation fields, such as various DC motors, DC power supplies, electromagnetic devices, intelligent instruments and so on, and it also can be used as the driver for all high power output devices under damp corrosive and explosion proofing conditions.

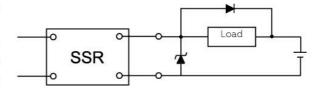
FEATURES

- Bipolar transistor output
- Photoelectric isolation
- ♦ LED status indicator
- ◆ Dielectric strength 2500V
- ♦ PCB mount
- Pin-compatible with standard package EMR

PRECAUTIONS

- 1. Soldering must be completed within 10s at 260°C or 5s at 350°C.
- 2. If poor ventilation is unavoidable, the load current must be derated.
- 3. Make sure the wiring of input and output and the input polarity are correct so as to avoid any damage to the SSR.
- 4. Inductive loads (e.g. motors, electromagnetic valves, solenoids, AC contactor coils, etc.) should be diode suppressed so as to absorb the transient inverse electromotive force generated by the inductive load.

5. Please do not use the SSR exceeding the limitation which is specified on this datasheet.



SELECTION GUIDE

KS40 /

5-

50

D

Load voltage

2

-L

(XXX)

Туре

Control voltage

Load voltage

form D: DC Load current

LED indicator

L: Included

Customer special code

5: 5VDC

50: 50V 12:12VDC 100:100V

24: 24VDC

2:2A

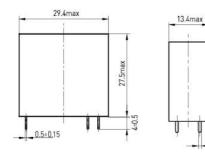
	_	4 61/53
Control voltage range	5	4~6VDC
	12	9.6 ~ 14.4VDC
	24	19.2 ~ 28.8VDC
Must turn-on voltage	5	4VDC
	12	9.6VDC
	24	19.2VDC
Must turn-off voltage	,	1.0VDC
Max. reverse protection voltage	5	-6VDC
	12	-14.4VDC
	24	-28.8VDC
Names to the Seldent Server. Shoroutstings		
Max. input current		20mA
	a = 25°C)	20mA
OUTPUT SPECIFICATIONS (T	a = 25°C)	20mA 50D: 3 ~ 50VDC
OUTPUT SPECIFICATIONS (T	a = 25°C)	24000
OUTPUT SPECIFICATIONS (T	a = 25°C)	50D: 3 ~ 50VDC
oad voltage range	a = 25°C)	50D: 3 ~ 50VDC 100D: 3 ~ 100VDC
Max. input current OUTPUT SPECIFICATIONS (T Load voltage range Load current range Max. surge current (10ms) Max. off-state leakage current	a = 25°C)	50D: 3 ~ 50VDC 100D: 3 ~ 100VDC 0.01 ~ 2A
OUTPUT SPECIFICATIONS (To a construction of the construction of th	a = 25°C)	50D: 3 ~ 50VDC 100D: 3 ~ 100VDC 0.01 ~ 2A 8Apk
Load voltage range Load current range Max. surge current (10ms)	a = 25°C)	50D: 3 ~ 50VDC 100D: 3 ~ 100VDC 0.01 ~ 2A 8Apk 0.1mA
coad voltage range coad current range Max. surge current (10ms) Max. off-state leakage current Max. on-state voltage drop Max. turn-on time	a = 25°C)	50D: 3 ~ 50VDC 100D: 3 ~ 100VDC 0.01 ~ 2A 8Apk 0.1mA 1.5VDC
OUTPUT SPECIFICATIONS (To Load voltage range) Load current range Max. surge current (10ms) Max. off-state leakage current Max. on-state voltage drop	a = 25°C)	50D: 3 ~ 50VDC 100D: 3 ~ 100VDC 0.01 ~ 2A 8Apk 0.1mA 1.5VDC

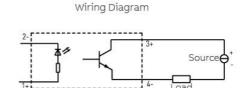
Dielectric strength (input/output)	2500VAC, 50~60Hz, 1min
Insulation resistance	1000MΩ (500VDC)
Max. capacitance (input / output)	8pF
Vibration resistance	$10 \sim 55$ Hz , 1.5 mm, DA
Shock resistance	980m/s²
Operating temperature	-30 ~ 80°C
Storage temperature	-30 ~ 100°C
Ambient humidity	45% ~ 85% RH
Unit weight	Approx.18g

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT

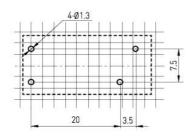
Unit: mm

Outline Dimensions

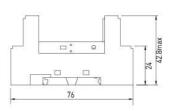




PCB Layout(Bottom view)







CHARACTERISTIC CURVES

Max. Load Current
vs. Ambient Temperature

2.5

2.0

1.5

1.0

0.5

0.5

0.7

Ambient Temperature (°C)

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

