TEXCELL

Solid State Relay (Single Phase DC Output)	KSL

Features
- MOSFET output
- Low on-state resistance
- Opto-isolation
- Dielectric strength: ≥2500VACrms
- PCB mounted
- RoHS compliant

CE

1. DESCRIPTION

KSL series is printed board mounted DC output solid state relay. Compact size, high inrush current, Load voltage is 60VDC, 100VDC, 200VDC and 400VDC.

2. APPLICATION

Suitable for control and isolation between control signal and high current as interface, widely used in different kinds of DC motor, DC power supply and electromechanical device 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.
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	L	3-10VDC
	H	10-28VDC
Minimum Turn-on Voltage	L	3VDC
	H	10VDC
Minimum Turn-off Voltage		1.0VDC
Maximum Input Current		15mA

2) Output Circuit

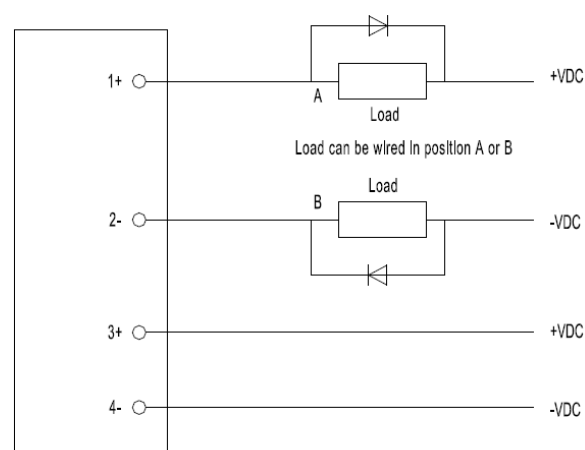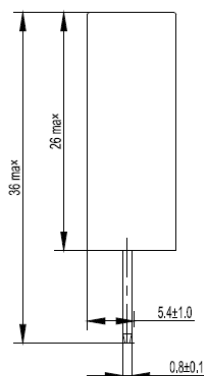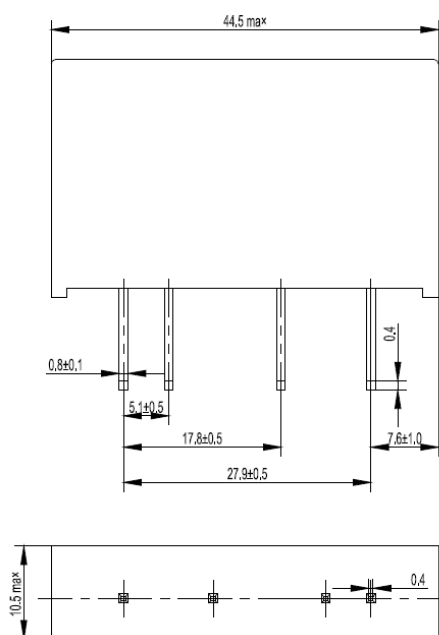|		
Load Voltage Range	60VDC	0-60VDC
	100VDC	0-100VDC
	200VDC	0-200VDC
	400VDC	0-400VDC
Transient Overvoltage	60VDC	80Vpk
	100VDC	120Vpk
	200VDC	250Vpk
	400VDC	500Vpk
Maximum Surge Current [@10ms]	3A	15A
	5A	25A
	10A	50A
	20A	100A
Maximum Turn-on Time		1ms
Maximum Turn-off Time		1ms
Maximum Off-state Leakage Current [@Rated Voltage]		0.1mA
Maximum On-state Resistance	3A	200mΩ
	5A	60mΩ
	10A	15mΩ
	20A	3.6mΩ

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

KSL	60	D	20	-L	
①	②	③	④	⑤	
① Relay Model	KSL				
② Load Voltage	60: 60VDC 100: 100VDC 200: 200VDC 400: 400VDC				
③ Control	D: DC control				
④ Load Current	3: 3Amp 5: 5Amp 10: 10Amp 20: 20Amp				
⑤ Control Voltage	L: 3-10VDC H: 10-28VDC				

6. INSTALLATION

7. THERMAL CURVE

3 A

Load Current(A) vs Ambient Temperture (℃)

5 A

Load Current(A) vs Ambient Temperture (℃)

10 A

Load Current(A) vs Ambient Temperture (℃)

20A

Load Current(A) vs Ambient Temperture (℃)