

POWER RELAY 1 POLE - 8A Polarized Latching Type JSL Series

■ FEATURES

Small footprint

- Width: 10mm - Height: 12.5mm

• High insulation

- Insulation distance: 8 mm (between coil and contacts)

- Dielectric strength: 5,000 VAC (between coil and contacts)

- Surge strength: 10,000 V (between coil and contacts)

Plastic materials

- UL 94 flame class V-0

· Plastic sealed type

Cadmium free relay

• Lead-free relay

· RoHS compliant.

Please see page 5 for more information



■ PARTNUMBER INFORMATION

	JS	<u>L</u>	_D_	12	M	_N_	-	_K_
[Example]	(a)	(b)	(c)	(d)	(e)	(f)		(g)

		l	
(a)	Relay type	JS	: JS Series
(b)	Operating function	L	: Latching type
(c)	Coil type	Nil D	: 1 coil : 2 coils
(d)	Coil rated voltage	12	: 324 VDC Coil rating table at page 3
e)	Contact configuration	Nil M	: 1 form C : 1 form A
(f)	Contact material	N	: AgSnO ₂ , Au plated
(g)	Sealed type	К	: Wash tight

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JSL SERIES

■ SPECIFICATION

Item			JSL (1 coil)	JSL (2 coils)		
Contact	Configuration		1 form A, 1 form C			
Data	Construction		Single			
	Material		AgSnO ₂			
	Resistance (initial)		≤ 100 mΩ at 6VDC, 1A			
	Contact rating		8A, 250VAC / 24VDC			
	Max. carrying current		10A			
	Max. switching voltage		400VAC / 150VDC			
	Max. switching power		2,000VA			
	Max. switching current		10A			
	Min. switching load *		100 mA, 5 VDC			
Life	Mechanical		5 x 10 ⁶ operations minimum			
	Electrical		50 x 10 ³ operations minimum			
Coil Data	Rated power (at 20 °C)		220mW	480mW		
	Operating temperature	range	-40 °C to +70 °C (no frost)			
Timing Data	Set / reset (at nominal of	coil voltage)	≤ 10ms (no bounce included)			
	Exitation time		≥ 20ms			
Insulation	Resistance (initial)		≥ 1,000MOhm at 500VD0	≥ 1,000MOhm at 500VDC		
	Dielectric strength Open contacts		1,000VAC (50/60Hz) 1min			
	Contacts to coil		5,000VAC (50/60Hz) 1min			
	Surge strength Coil to contacts		10,000V / 1.2 x 50µs standard wave			
	Clearance		8 mm			
	Creepage		8 mm			
Other	Vibration resistance	Misoperation>1us	•			
	Vibration regiotaries	Endurance	10 to 55Hz double amplitude 3 mm			
	Shock	Misoperation>1us	Min. 200m/s² (11 ± 1ms)			
		Endurance	Min. 1,000m/s² (6 ± 1ms)			
	Weight		Approximately 8 g			

^{*} Minimum switching loads mentioned above are reference values. Please perform the confirmation test with actual load before production since reference values may vary according to switching frequencies, environmental contions and expected reliability levels.

JSL SERIES

■ COIL RATING

0 - 11		1 coil		2 coils			
Coil Code	Operating range		Coil Resistance	Operating range		Coil Resistance	
Oouc	Min. VDC	Max. VDC	+/- 10% (Ohm)	Min. VDC	Max. VDC	+/- 10% (Ohm)	
3	2.4	5.4	41	2.4	5.4	19	
5	4	9	114	4	9	53	
6	4.8	10.6	164	4.8	10.6	75	
9	7.2	15.9	368	7.2	15.9	169	
12	9.6	21.2	655	9.6	21.2	300	
24	19.2	42.2	2,304	19.2	42.2	1,200	

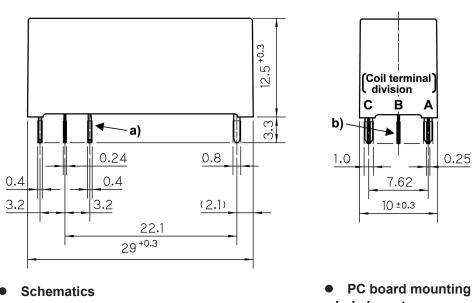
Note: All values in the table are valid for 20°C and zero contact current. * Specified operate values are valid for pulse wave voltage.

COIL POLARITY

Version	1 coil		2 coils		
Coil terminal division	Α	С	Α	В	С
Set	+	-	+	-	
Reset	-	+		-	+

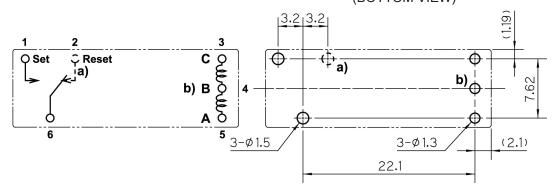
■ DIMENSIONS

Dimensions



(BOTTOM VIEW)

hole layout (BOTTOM VIEW)



- a) for 1 form C version only
- b) for 2 coils version only

Unit: mm

RoHS Compliance and Lead Free Information

1. General Information

- All signal and power relays produced by Fujitsu Components are compliant with RoHS directive 2002/95EC including amendments.
- Cadmium as used in electrical contacts is exempted from the RoHS directives on October 21st, 2005.
 (Amendment to Directive 2002/95/EC)
- All of our signal and power relays are lead-free. Please refer to Lead-Free Status Info for older date codes at: http://www.fujitsu.com/us/downloads/MICRO/fcai/relays/lead-free-letter.pdf
- Lead free solder plating on relay terminals is Sn-3.0Ag-0.5Cu, unless otherwise specified. This material has been verified to be compatible with PbSn assembly process.

2. Recommended Lead Free Solder Profile

• Recommended solder Sn-3.0Ag-0.5Cu.

Flow Solder condition:

Pre-heating: maximum 120°C dip within 5 sec. at 260°C solder bath

Solder by Soldering Iron:

Soldering Iron

Temperature: maximum 360°C Duration: maximum 3 sec.

We highly recommend that you confirm your actual solder conditions

3. Moisture Sensitivity

• Moisture Sensitivity Level standard is not applicable to electromechanical relays, unless otherwise indicated.

4. Tin Whiskers

• Dipped SnAgCu solder is known as presenting a low risk to tin whisker development. No considerable length whisker was found by our in house test.

JSL SERIES

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