

SPECIFICATION

JZC49FD

SUBMINIATURE POWER RELAY

CONTACT DATA

Contact arrangement	1A
Contact resistance	100mΩ(at 1A 6VDC)
Contact material	AgSno ₂ ,AgNi
Contact rating (Res. load)	5A 250VAC/30VDC
Max. switching voltage	250VAC/30VDC
Max. switching current	5A
Max. switching power	1250VA/150W
Mechanical endurance	2 x 10 ⁷ ops
Electrical endurance	1 x 10 ⁵ ops
Contact rating (Res. load)	5A 250VAC/30VDC
Min.contact load	No gold plated:5VDC 50mA Gold plated:5VDC 1mA

CHARACTERISTICS

Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	3000VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi.volt.)		10ms max.
Release time (at nomi.volt.)		5ms max.
Shock resistance	Functional	98m/s²
	Destructive	980m/s²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		5% to 85% RH
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 3g
Construction		Plastic sealed

Notes: 1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curves below.
3) UL insulation system: Class F, Class B, Class A.

COIL

Coil power	Approx. 120mW (at 5VDC to 18VDC) Approx. 180mW (at 24VDC)
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COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min.	Max. Allowable Voltage VDC at 85°C	Coil Resistance Ω
5	3.50	0.25	6.0	208 x (1±10%)
6	4.20	0.30	7.2	300 x (1±10%)
9	6.30	0.45	10.8	675 x (1±10%)
12	8.40	0.60	14.4	1200 x (1±10%)
18	12.6	0.90	21.6	2700 x (1±15%)
24	16.8	1.20	28.8	3200 x (1±15%)

Notes: 1) All above data are tested when the relays terminals are downward position. Other positions of the terminals, the pick-up and drop-out voltages will have ± 5% tolerance. For example, when the relay terminals are transverse position, the max. pick-up voltage change is 75% of nominal voltage.

2) The max. allowable voltage in the COIL DATA is coil overdrive voltage, it is the instantaneous max. voltage which the relay coil could endure in a very short time.

3) 24VDC 120mW type are also available, please see ordering information for more details.

SAFETY APPROVAL RATINGS

UL/CUL	5A 30VDC L/R =0ms 3A 30VDC L/R =0ms 5A 250VAC COSØ=1 3A 250VAC COSØ=1
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Notes: Only some typical ratings are listed above. If more details are required, please contact us.

ORDERING INFORMATION

Type	JZC49FD/	012	-1H	1	2	G	T	F	L (XXX)
Coil voltage	5, 6, 9, 12, 18, 24VDC								
Contact arrangement	1H: 1 Form A								
Contact version	1: Single contact 2: Bifurcated contact(Only for gold plated)								
Space between terminals	(See the following) 1: 5.08mm 2: 7.62mm								
Contact plating	G: Gold plated Nil: No gold plated (Only for single contact)								
Contact material	T: AgSnO ₂ (Only for single contact) Nil: AgNi								
Insulation standard	F: Class A B: Class B Nil: Class F								
Coil power	L: Sensitive 180mW(Only for 24VDC) Nil: Standard 120mW(At 5VDC to 18VDC)								
Special code ²⁾	009: Socket Type Nil: Standard								

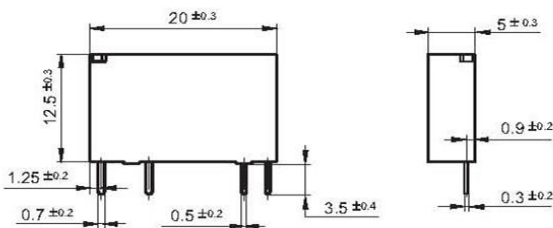
Notes: 1) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.

2) The customer special requirement express as special code after evaluating by Hongfa.

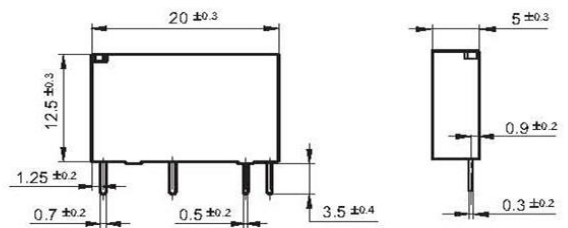
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Outline Dimensions

JZC49FD/□□□ -1H□1(XXX)

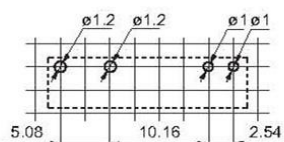


JZC49FD/□□□ -1H□2(XXX)

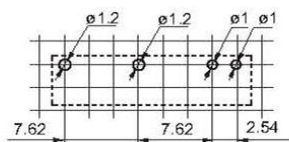


PCB Layout (Bottom view)

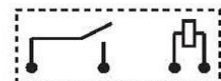
JZC49FD/□□□ -1H□1(XXX)



JZC49FD/□□□ -1H□2(XXX)



Wiring Diagram (Bottom view)



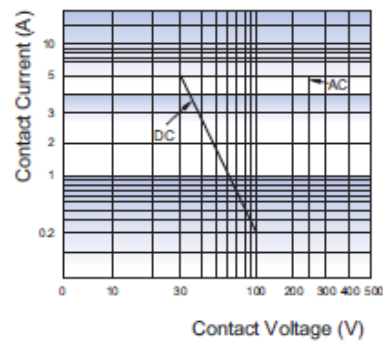
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

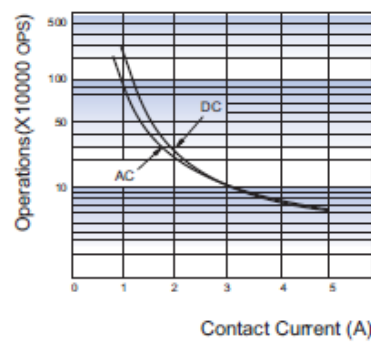
3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE

