



Patent: ZL 2010 2 0563204.3

### Main Feature

1. Small size(18.3x10.2x15.2 in mm) produces a Switching capacity up to 10A for high density P.C.Board mounting technique.
2. The Contact form construction is 1A (SPST-NO)
3. The Surge Resistance of BJ Series is 10,000V.
4. Sealing Construction (Free from dust and solder flux): BJ-SS: Plastic Sealed Type.
5. The selection of plastic insulation material is designed for high temperature and provides better chemical solution performance.
6. RoHS Compliant.

### Application

Domestic Appliances. Office Machines. Audio Equipment. Car Use.....etc



### Contact Rating

- Nominal Load(Resistive Load Cos  $\phi$  =1)  
Contact Capacity  
BJ-DM/LM.....10A at 125VAC  
5A at 250 VAC  
5A at 30 VDC  
BJ-DMF/LMF.....10A at 250VAC  
10A at 30 VDC
- Max. Allowable Current  
BJ-DM/LM/DMF/LMF.....10A
- Max Allowable Voltage.....AC250V. DC30V
- Max Allowable Power Force  
BJ-DM/LM.....1250VA 150W  
BJ-DMF/LMF.....2500VA 300W
- Contact Material.....Ag Alloy
- Contact Form.....SPST-NO

### Performance (at Initial Value)

- Contact Resistance..... $\leq 50m\ \Omega$  at 6VDC/1A
- Operate Time.....BJ-DM(DMF) 5 ms. Max.  
BJ-LM (LMF) 6 ms. Max
- Release Time.....3 ms. Max
- Dielectric Strength:  
Between Coil & Contact.....4000VAC at 50/60  
Hz for one minute  
Between Contacts.....1000VAC at 50/60  
Hz for one minute
- Surge Resistance.....10,000V (between  
Coil & contact  
1.2x50  $\mu$ s)

- Insulation Resistance..... 1,000 Mega  $\Omega$  Min.  
at 500VDC
- Max. On/Off Switching:  
Electrical..... 30 Ops per minute  
Mectrical.....300 Ops per minute
- Temperature Range..... - 40~85 $^{\circ}$ C
- Humidity Range.....5%~85% RH
- Coil Temperature Rise... ..35 $^{\circ}$ C Maximum
- Vibration:  
Endurance.....10 to 55 Hz dual  
amplitude width  
1.5mm  
Error Operation.....10 to 55 Hz dual  
amplitude width  
1.5mm
- Shock:  
Endurance.....981m/s<sup>2</sup> Min  
Error Operation.....98.1m/s<sup>2</sup> Min
- Life Expectancy:  
Mechanical.....10<sup>7</sup> Operations at  
No load condition  
Electrical.....10<sup>5</sup>Operations at  
Rated Resistive  
load
- Weight.....about 7 g

### Safety Standard & Its File Number

- UL.....E333244
- TUV.....R50183595
- CQC.....CQC10002054547

## Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 8\%$ )	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
BJ-DM BJ-DMF	3	150	20	Abt. 0.45	75% Maximum	10% Minimum	130%
	5	91	55				
	6	75	80				
	9	50	180				
	12	37.5	320				
	24	18.8	1,280				
BJ-LM BJ-LMF	3	67	45	Abt. 0.2	75% Maximum	10% Minimum	130%
	5	40	125				
	6	33.3	180				
	9	22.5	400				
	12	16.7	720				
	24	8.3	2,800				

## Ordering Information

<b>BJ</b>	-	<b>SS</b>	-	<b>1</b>	<b>12</b>	<b>D</b>	<b>M</b>	<b>F</b>	F:contact load 10A
									Contact Form: M:One form A
									Coil Type: D:Standard DC Coil L:High Sensitivity DC Coil
									Coil Voltage: 03:3V, 05:5V,06:6V,09:9V 12:12V,24:24V,48:48V
									Number of Pole: 1:One Pole
									Type of Sealing: SS:Plastic Sealed Type
									Type: BJ

## Classification

Model	BJ			
Coil Sensitivity	Standard DC Coil		High Sensitivity DC Coil	
Plastic Sealed Type	BJ-SS-1□□DM	BJ-SS-1□□DMF	BJ-SS-1□□LM	BJ-SS-1□□LMF

## Dimension

