



Patent: ZL 2011 2 0054624.3



### Main Feature

1. Small size (24.2x12.9x24.8 in mm) produces a switching capacity up to 5A for high density P.C.Board mounting technique.
2. The contact form construction is 2A
3. The Surge Resistance of BSA2 series is 10,000V
4. Sealing Construction (Free from dust and solder flux):  
BSA2-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

Air Conditioning, Fridge, Washing Machine, etc Household Appliances

### Contact Rating

- Nominal Load (Resistive Load  $\cos \phi = 1$ )  
Contact Capacity  
BSA2-DM3.....3A at 125VAC  
3A at 24VDC  
BSA2-DM5.....5A at 240VAC  
5A at 30VDC
- Max. Allowable Current  
BSA2-DM3.....3A  
BSA2-DM5.....5A
- Max. Allowable Voltage  
BSA2-DM3.....AC125V DC24V  
BSA2-DM5.....AC240V DC30V
- Max. Allowable Power Force  
BSA2-DM3.....375VA 72W  
BSA2-DM5.....1,200VA 150W
- Contact Material.....Ag Alloy
- Contact Form.....DPST

### Performance (at Initial Value)

- Contact Resistance..... $\leq 50m\Omega$  at 6VDC/1A
- Operate Time.....10ms. Max
- Release Time.....5ms. Max
- Dielectric Strength:  
Between Coil & Contact.....4,500VAC at 50/60 Hz  
for one minute  
Between Contacts.....1,000VAC 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  
Mechanical.....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:  
Electrical.....10<sup>5</sup> Operations at  
Rated Resistive  
load  
Mechanical.....10<sup>7</sup> Operations at  
No load condition
- Weight.....about 13g

### Safety Standard & Its File Number Pending

## 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)
BSA2-DM3 BSA2-DM5	5	108.7	46	Abt. 0.54	75% Maximum	10% Minimum	130%
	6	85.7	70				
	9	58.1	155				
	12	44.4	270				
	24	21.8	1100				
	48	11.2	4270				

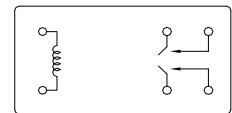
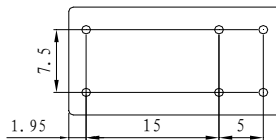
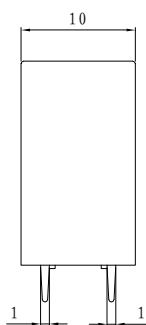
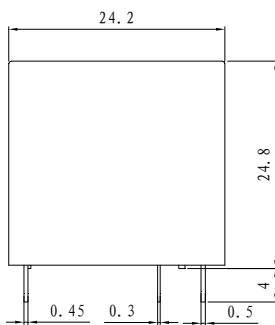
## Ordering Information

<b>BSA2</b>	-	<b>SS</b>	-	<b>2</b>	<b>12</b>	<b>D</b>	<b>M</b>	<b>3</b>	<b>IContact Weld Mode : 3:Spot Welding 5:Hinge Match</b>
									<b>Contact Form: M:Two form A</b>
									<b>Coil Type: D:Standard DC Coil</b>
									<b>Coil Voltage: 03:3V, 05:5V,06:6V,09:9V 12:12V,24:24V,48:48V</b>
									<b>Number of Pole: 2:Two Pole</b>
									<b>Type of Sealing: SS:Plastic Sealed Type</b>
									<b>Type: BSA2</b>

## Classification

Model	BSA2
Coil Sensitivity	Standard DC Coil
Flow Solder Type	2A
	BSA2 -SS-2□□DM3      BSA2 -SS-2□□DM5

## Dimension



Dimension Tolerance: < 1mm:  $\pm 0.2$ mm  
 1--5mm:  $\pm 0.3$ mm  
 > 5mm:  $\pm 0.5$ mm