



Patent: ZL 2011 2 0054564.5

Patent: ZL 2011 2 0054582.3



Contact Rating

- Nominal Load(Resistive Load Cos $\phi = 1$)
Contact Capacity

BSA1-DM.....	10A at 250VAC
	10A at 30VDC
BSA1-LM.....	5A at 250VAC
	5A at 30VDC

- Max. Allowable Current

BSA1-DM.....	10A
BSA1-LM.....	5A

- Max. Allowable Voltage

BSA1-DM/LM.....	AC250V DC30V
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- Max. Allowable Power Force

BSA1-DM.....	2,500VA 300W
BSA1-LM.....	1,250VA 150W

- Contact Material..... Ag Alloy
- Contact Form..... SPST

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 μ s)

ISO9001、ISO14001 Certification Enterprises

Main Feature

1. Small size (24x10x25 in mm) produces a switching capacity up to 10A for high density P.C.Board mounting technique.
2. The contact form construction is 1A
3. Operating load capability: inrush 118A, steady 8A
4. The Surge Resistance of BSA1 series is 10,000V
5. Sealing Construction (Free from dust and solder flux):
BSA1-S: Plastic duct cover.
6. 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

- Insulation Resistance..... 1,000 Mega Ω 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 ² Min
Error Operation.....	98.1m/s ² Min

- Life Expectancy:

Electrical.....	10 ⁵ Operations at
	Rated Resistive
	load
Mechanical.....	10 ⁷ Operations at
	No load condition

- Weight..... about 11g

Safety Standard & Its File Number

- UL..... E332719
- CQC..... CQC10002052523

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)
BSA1-DM	5	108.7	46	Abt. 0.54	75% Maximum	10% Minimum	130%
	6	89.6	67				
	9	60	150				
	12	44.4	270				
	24	21.8	1100				
	48	11.2	4270				
BSA1-LM	5	50	100	Abt. 0.25	75% Maximum	10% Minimum	130%
	6	41.7	144				
	9	27.8	324				
	12	20.7	580				
	24	10.4	2300				
	48	5.2	9216				

Ordering Information

BSA1 - S - 1 12 D M	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: S:Plastic duct cover
	Type: BSA1

Classification

Model	BSA1	
Coil Sensitivity	Standard DC Coil 1A	High Sensitivity DC Coil 1A
Flow Solder Type	BSA1 -S-1□□DM	BSA1-S-1□□LM

Dimension

