



## Contact Rating

- Nominal Load(Resistive Load Cos  $\phi = 1$ )  
Contact Capacity  
BPD-DM.....16A at 250VAC
- Max. Allowable Current  
BPD-DM.....16A
- Max. Allowable Voltage  
BPD-DM.....AC250V
- Max. Allowable Power Force  
BPD-DM.....4,000VA
- 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.....2,200VAC 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)

## Main Feature

1. Small size (23x16.2x10.2 in mm) produces a switching capacity up to 16A for high density P.C.Board mounting technique.
2. The contact form construction is 1a
3. The Surge Resistance of BPD series is 10,000V
4. Sealing Construction (Free from dust and solder flux):  
BPD-SS: Flow Solder Type.
5. The selection of plastic insulation material is designed for high temperature and provides better chemical solution performance.

## Application

Air Conditioning, Fridge, Washing Machine, etc Household Appliances

- Insulation Resistance.....100 Mega  $\Omega$  Min. at  
500VDC
- Max. On/Off Switching:  
Electrical.....30 Ops per minute  
Mechanical.....300 Ops per minute
- Temperature Range..... - 30~85°C
- Humidity Range.....45~85% RH
- Coil Temperature Rise..... 35°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 10g

## Safety Standard & Its File Number

- UL.....E333244
- TUV.....R50165834
- CQC.....CQC10002042509

## 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)
BPD-DM	3	66.7	45	Abt. 0.2	75% Maximum	10% Minimum	130%
	5	40	125				
	6	33.3	180				
	9	22.2	405				
	12	16.7	720				
	24	8.3	2880				
	48	5.2	9200				

## Ordering Information

BPD	-	SS	-	1	12	D	M		
									<b>Contact Form:</b>
									<b>M:</b> One form A
									<b>Coil Type:</b>
									<b>D:</b> Standard DC Coil
									<b>Coil Voltage:</b>
									<b>03:</b> 3V, <b>05:</b> 5V, <b>06:</b> 6V, <b>09:</b> 9V, <b>12:</b> 12V, <b>24:</b> 24V, <b>48:</b> 48V
									<b>Number of Pole:</b>
									<b>1:</b> One Pole
									<b>Type of Sealing:</b>
									<b>SS:</b> How Solder Type
									<b>Type:</b>
									<b>BPD</b>

## Classification

Model	BPD
Coil Sensitivity	Standard DC Coil 1A
Flow Solder Type	BPD -SS-1□□DM

## Dimension

