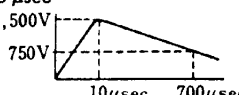


Features

- **Gold-overlay bifurcated contact**
Contact material and shape especially suitable for signal switching assures reliability at low level switching.
- **Conforms to FCC68 standards**
High voltage relays are also available with dielectric withstand voltage greater than 1,000V AC and surge voltage resistance greater than 1,500V.
- **Easy pattern design**
Separate location of drive and output terminals allows easy PC board design.
- **Formed terminals for temporary mounting**
Formed terminals enable FBR240-series relays to be mounted temporarily on a PC board.
- **Automatic mounting**
Shipped in carrier case plastic magazine suitable for automatic mounting.

Specifications

Item	Specification	
Contact arrangement	2 form C (DPDT)	
Contact material	Gold-overlay silver contacts (contact symbol S or T) Gold-overlay silver-palladium contacts (contact symbol P or E) Thick gold-overlay silver-palladium contacts (contact symbol F)	
Contact resistance	100 mΩ max. (measured at 6V DC, 0.1A) initial value	
Insulation resistance	100 MΩ min. (at 500V DC) initial value	
Dielectric withstand voltage	Standard: 500V AC for 1 minute High withstand voltage: 1,000V AC for 1 minute (between open contacts 500V AC for 1 minute)	
Surge voltage resistance (for high withstand voltage types)	1,500V/10 μsec/700 μsec (between coil and 1,500V contacts, between adjacent contacts) 	
Static electricity capacity between contacts	2 PF max. (reference value)	
Vibration	No contact opening: 10 Hz to 55 Hz (1.5 mm dual amplitude) No damage: 10 Hz to 55 Hz (1.5 mm dual amplitude)	
Shock	Malfunctions: 20 G (11 ms) Endurance: 100 G (11 ms)	
Operate time	6 ms max. (bounce time 3 ms max.) (at rated power 500 mW to 550 mW ops.)	
Release time	3 ms max. (bounce time 8 ms max.) (after rated power ops.)	
Service life	Mechanical	2 × 10 ⁷ ops. min. (maximum switching frequency 18,000 ops./hr)
	Electrical	5 × 10 ⁵ ops. min. (28V DC, 1A resistive load) 1 × 10 ⁵ ops. min. (120V AC, 0.5A resistive load) (maximum switching frequency 1,800 ops./hr)
Operating temperature	-30°C to +70°C (See Reference Data 4 and 5.)	
Operating humidity	45% to 85% RH	
Weight	Approx. 4.5g	

Contact Capacities

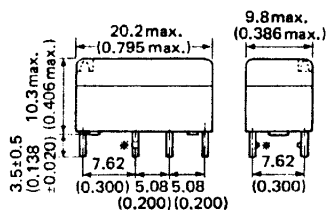
Item	DC load	AC load	Remarks
Contact rating	28V - 1A	120V - 0.5A	With resistive load
Maximum switching voltage*1	150V	220V	
Maximum switching current	2.0A	1.25A	
Maximum carrying current	2A		
Maximum switching power	30W	60 VA	
Minimum applicable load (Reference)*2	02CS type5V DC-1mA 02CT, CP type .1V DC-1mA 02CE, CF type .0.1V DC-100μA		

*1. If the switching voltage exceeds the rated contact voltage, reduce the current. Since current values vary according to the type of load.

*2 Values when switching a resistive load at normal temperature and humidity and in a clean atmosphere. The minimum applicable load varies with the switching frequency and operating environment.

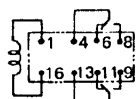
Dimensions and Schematics

Unit: mm (in.)



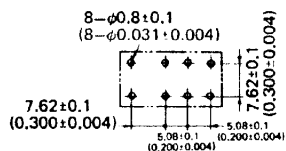
* The terminals marked with an asterisk are formed for temporary mounting on PC board.

Schematics



(Bottom view)

PC Board Mounting Hole Layout



Note: Terminal numbers are not shown on the relays.