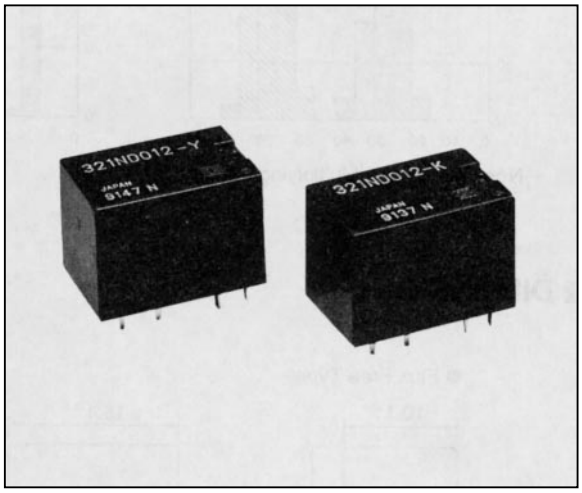
POWER RELAY

2 POLES–3 to 6 A (FOR AUTOMOTIVE APPLICATIONS)

FBR320 SERIES

■ FEATURES

- Suitable for motor load controls of car antenna.
- Capable of 6 A/1 Hr maximum carrying Current inthe contact.



■ ORDERING INFORMATION

[Example] FBR321 (a) N (b) D012 (c) – Y (d) ** (e)

(a)	Series Name	FBR321: 2 Form C FBR320 Series
(b)	Enclosure	Nil : Flux free Type N : Plastic Sealed Type
(c)	Nominal Voltage	D09 : 9 VDC D12 : 12 VDC
(d)	Contact Material	Y : Silver-Tin oxide
(e)	Custom Designation	To be assigned custom specification

■ SPECIFICATIONS

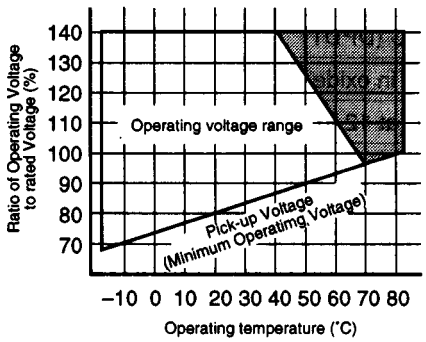
Item			FBR321
Contact	Arrangement		2 Form C (DPDT)
	Material		Silver-Tin oxide
	Voltage Drop (Resistance)		Max. 100 mV (at 12 VDC 2 A)
	Max. Carrying Current		4 A 6 A/1 Hr
	Max. Switching Current		4 A 16 VDC (Reference)
Coil	Operating Temperature		–30°C~+85°C (No frost) (Refer to the CHARACTERISTIC DATA)
Time Value	Operate (at nominal voltage)		Max. 20 ms
	Release (at nominal voltage)		Max. 10 ms
Life	Mechanical		10×10^6 ops. min.
	Electrical		100×10^3 ops. min. (14 VDC, Max. Switching Current, resistive load)
Other	Vibration Resistance		10 to 55 Hz (double amplitude of 1.5 mm)
	Shock Resistance	Misoperation	100 m/s^2 (11 $\pm^1$ ms)
		Endurance	1,000 m/s^2 (11 $\pm^1$ ms)
	Unit Mass		Approx. 12 g

■ COIL RATINGS

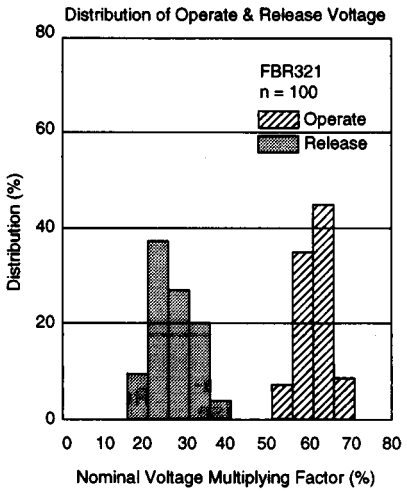
MODEL		Nominal voltage	Coil resistance (±10%)	Must Operate Voltage	Nominal Power	Coil temperature rise	Thermal Resistance
Flux Free Type	Plastic Sealed Type						
FBR321D009-Y	FBR321ND009-Y	9 VDC	135 Ω	7.2 V (20°C) 8.9 V (80°C)	Approx. 600 mW	Approx. 45 deg	75°C/W
FBR321D012-Y	FBR321ND012-Y	12 VDC	230 Ω	9.6 V (20°C) 11.9 V (80°C)			

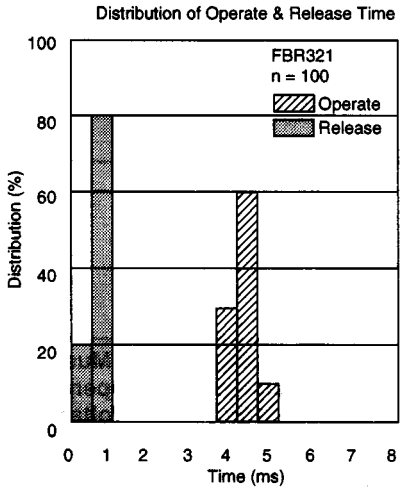
Note: All values in the table are measured at 20°C.

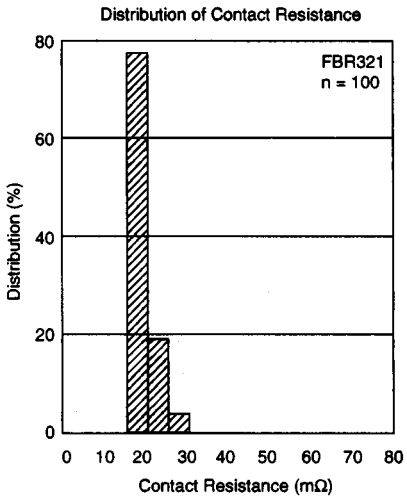
■ CHARACTERISTIC DATA



■ REFERENCE DATA

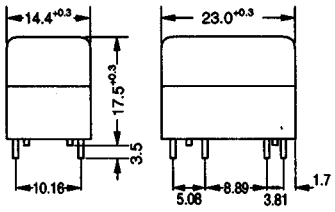




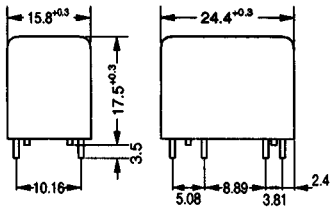


■ DIMENSIONS

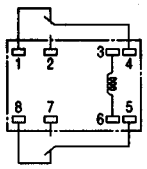
• Flux Free Type



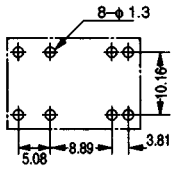
• Plastic Sealed Type



• Schematics (BOTTOM VIEW)



• PC board mounting hole layout (BOTTOM VIEW)



Unit: mm