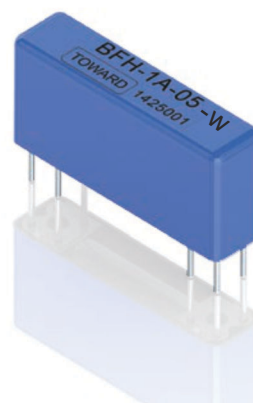


BFH Series

2a, 3a, 2c Reed Relays

Features

- High reliability reed relays.
- High Insulation Resistance.
- High speed switching compared to electromechanical relays.
- Hermetically sealed contacts for long life.
- Optional coaxial shield for 50Ω impedance and switching of fast rise time digital pulses.
- Wide operating temperature rang - 40 °Cto +125 °C.
- RoHS compliant.



Order Code

BFH- XX-XX X -W
 a b c d

- a : Contact Form : 2A=2 Form A, 3A=3 Form A, 2C=2 Form C,
- b : Nominal Coil Voltage : 05=5VDC, 12=12VDC
- c : Nil=No Shield, C=Coaxial Shield
 (N/A on Model BFH-3A,BFH-2C)
- d : W=Wide Operating Temperature Range

Coil Data-Standard Type (at 20°C)

Part Number	Nominal Voltage DC ± 10% [V]	Coil Resistance ± 10% [ohm]	Nominal Current [mA]	Must Release Voltage MIN. [V] at 20°C	Must Operate Voltage MAX. [V] at 20°C
BFH-2A/3A/2C	5	90	55.6	0.4	2.5
BFH-2A/3A/2C	12	500	24.0	1.0	6.7

Contact Specifications

Contact Form	2 Form A	3 Form A	2 Form C
Contact Rating	10W	10W	3W
Max. Switching Voltage	200V	200V	100V
Max. Switching Current	0.5A	0.5A	0.25A
Max. Carry Current	1.5A	1.5A	0.5A
Max. Static Contact Resistance 50mV,10mA	150mΩ	150mΩ	200mΩ
Max. Dynamic Contact Resistance 0.5V,50mA at 100Hz,1.5msec	200mΩ	200mΩ	250mΩ





Electrical Specifications

Contact Form		2 Form A	3 Form A	2 Form C
Breakdown Voltage	Between contacts	250VDC	250VDC	200VDC
	Contacts to shield	1000VDC	N/A	N/A
	Contacts / shield to coil	1000VDC	1000VDC	1000VDC
Insulation Resistance(at 100V, 25°C, 40%RH)		10 ¹² Ω	10 ¹² Ω	10 ⁹ Ω
Capacitance-Typical	No Shield	0.8pF	0.8pF	2.0pF
Across Open Contacts	Shield Guarding	0.2pF	N/A	N/A
Operate Time Including bounce - Typical		0.5mS	0.5mS	1.5mS
Release Time - Typical		0.15mS	0.15mS	2.0mS

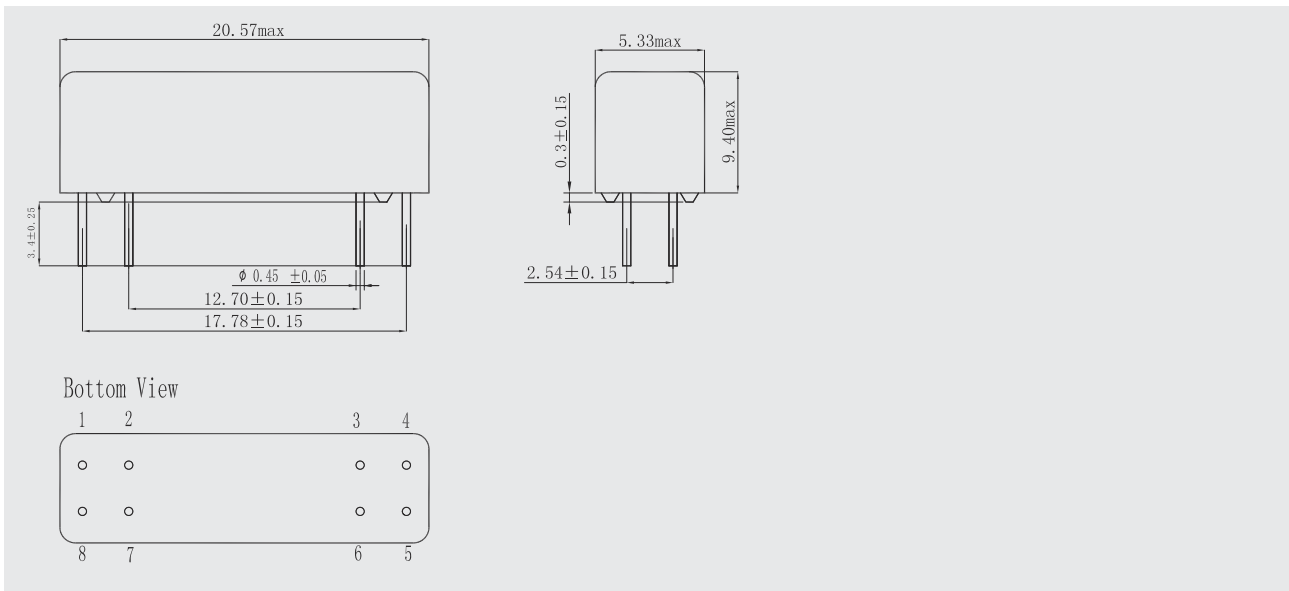
Mechanical Specifications

Vibration (0 to 2KHz)	20G
Shock (11mS 1/2 Sin Wave)	50G

Environmental

Operating Temp	-40°C~+125°C		
Storage Temp	-40°C~+125°C		
Life Expectancy (1.0VDC 10mA)	5X10 ⁸	5X10 ⁸	1X10 ⁸

Dimensions (Unit : mm)



Wiring Diagrams (Top View)

