

FS Series Reed Relays

PCB High Density

The FS series reed relay is an ultra-compact and lightweight option designed for high-density PCB mounting. It can be easily installed in narrow spaces, making it ideal for high-density market demands. The FS series offers 1 Form A, 2 Form A, and 1 Form C (SPDT) relay options, making it suitable for load board applications and high-density switching matrices.

- SPDT High Density
- 3.3V, 5V, 12V Coil available
- Magnetic Shield
- Smallest Mounting Space: 4.9mm x 4.9mm
- Electrostatic Shield and Diode Options



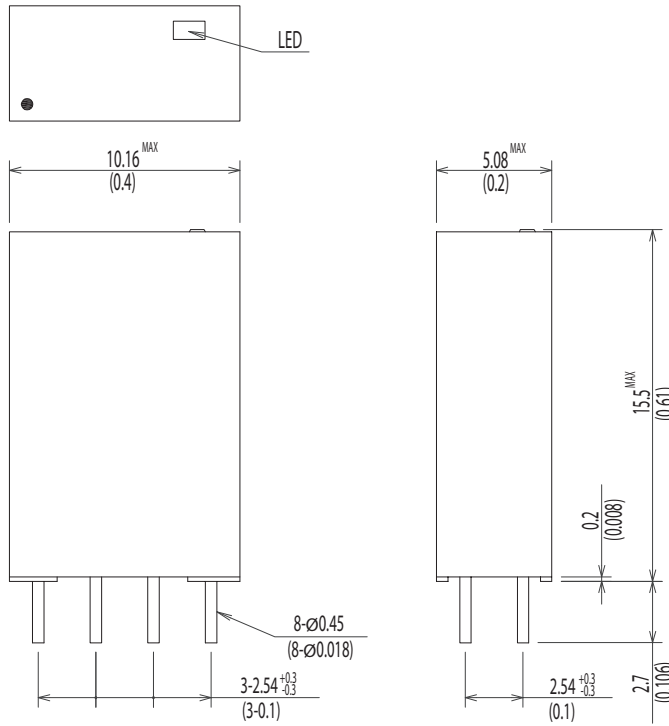
| Replace "x" with N or D for Diode | | FS-103x FS-203x FS-T03x | FS-105x FS-205x FS-T05x | FS-112x FS-212x FS-T12x | |
|--|------------------------|-------------------------------|--|-------------------------------|---|
| Parameters | Units | 1, 2 Form A, 1 Form C (1A+1B) | | | Test Conditions |
| Coil Specifications | | | | | |
| Nominal Coil Voltage | VDC | 3.3 | 5.0 | 12.0 | |
| Coil Resistance | Ω | 70 | 110 | 550 | ±10% @ 20°C |
| Operate Voltage | VDC Max | 2.8 | 3.75 | 8.8 | @20°C |
| Release Voltage | VDC Min | 0.5 | 0.7 | 1.2 | @20°C |
| Contact Ratings | | | | | |
| Switching Voltage | Volts | 100 | | | Max DC/Peak AC resistance |
| Switching Current | Amps | 0.5 | | | Max DC/Peak AC resistance |
| Carry Current | Amps | 1.0 | | | Max DC/Peak AC resistance(@30°C) |
| Contact Rating | Watts | 10 | | | Max DC/Peak AC resistance |
| Life Expectancy | x10 ⁶ Cycle | 300 | | | @ 1V 10mA |
| Contact Resistance | mΩ | 150 | | | Max initial @ operate voltage |
| Contact Resistance Stability | mΩ | 5.0 | | | Max initial @ operate voltage |
| Relay Specifications | | | | | |
| Insulation Resistance | Ω Min | 10 ¹⁰ | | 10 ¹⁰ | Between all isolated pins @ 100V 20°C 65%RH |
| Dielectric Strength (Static) | VDC Min | 150 | | 150 | Between contacts Contacts to shield Contacts/shield to coil |
| | VDC Min | No shield | 150 | | |
| | VDC Min | No shield | 150 | | |
| Operate Time (Including Bounce) | msec Max | 0.3 | | 0.3 | @ nominal coil voltage 100 Hz square wave |
| Release Time | msec Max | 0.3 | | 0.3 | Diode suppression |
| Measurement Reference Conditions | | | Environmental Ratings | | |
| Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa | | | Storage temp: -40°C to +85°C Operate temp: -20°C to +60°C Vibration: 20G's to 2000Hz Shock: 50G's Processing temp: 260°C max for 60sec. dwell time | | |

RoHS

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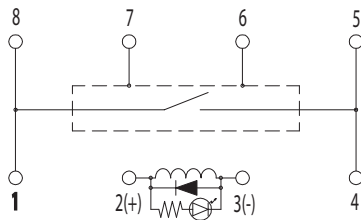


FS-1##x/FS-2##x/FS-1T##x

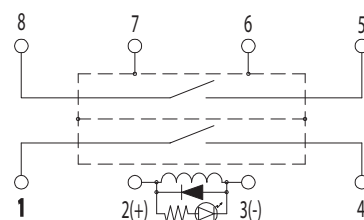


Schematic <Top View>

FS-1##x



FS-2##x



MFS-T##x

