

# Micro-Size High Speed Type (1a - Reed Relay)

## ■ Part number - Feature

### ● VS1\*\* (W) I

Coaxial-shield type  
Coil Voltage

- Micro-size for high density mounting

## ■ Performance

Specifications	Item	Standard			
Contact Specifications	Contact Form	1a (make)			
	Contact Rating	10W			
	Max. Switching Voltage	DC100V			
	Max. Switching Current	0.5 A			
	Max. Carry Current	1.0 A			
	Contact Resistance	200 mΩ MAX (Initial)			
Electrical Specifications	Breakdown Voltage	Open Contacts DC. 200V (1 min) Contact to shield DC. 200V (1 min) Shield to coil DC. 200V (1 min)			
	Insulation Resistance	Between all isolated pins $1 \times 10^{11} \Omega$ MIN (DC100V)			
	Capacitance	Open Contacts 0.52pF MAX. (Shield Guarding) Contacts to shield 0.8pF MAX.			
	Thermal Electromotive Force	50 μV TYP.			
	Operate Time	(incl. bounce) 0.3 mS MAX. (at Nominal Voltage)			
	Release Time	0.1 mS MAX, (at Nominal Voltage)			
Mechanical Spec.	Vibration	20G (0 to 2KHz 1.5mm)			
	Shock	30G (11mS 1/2 Sin Wave)			
Environment	Operating Temperature	-10°C to +60°C			
Life Expectancy	Mechanical	1X10 <sup>8</sup> MIN. Operations			
	Electrical	DC. 10mV-10 μA 1X10 <sup>8</sup> MIN. Operations (R. L.)			
		DC. 12V-5mA 5X10 <sup>7</sup> MIN. Operations (R. L.)			
High frequency characteristics (in-output impedance 50 Ω)	Return Loss	10MHz	30db MIN.	50MHz	25dB MIN.
	Isolation		50 dB MIN.		40dB MIN.
	Insertion Loss		0.12 dB MAX.		0.14db MAX.

## ■ Coil Specifications

Contact Form	Part Number	Nominal Voltage DC. $\pm 10\%$ (V)	Coil Resistance $\pm 10\%$ ( $\Omega$ ) at 20°C	Nominal Current (mA)	Must Operate Voltage MAX. (V) at 20°C
1a	VS105 (W) I	5	200	25.0	3.8
	VS112 (W) I	12	600	20.0	8.4

## ■ Dimensions /Terminal Identification (Unit:mm)

Dimensions	Terminal Identification
<p>weight about 1.2gr.</p>	<p>TOP VIEW</p> <p>VS100I</p> <p>VS100WI</p>