# SRC DEVICES

#### DESCRIPTION

The high performance MSS4 and MVS4 models provide bounce free operation and offer a more durable contact when switching capacitive or inductive loads. Both are capable of switching loads up to 50 watts.

#### **FEATURES**

- ·High reliability switching
- •3V operate option available
- •Long operating life at low levels (>1 billion operations)
- •High isolation between input and output (2500V)
- •Optional internal diode & N.C. option

#### **APPLICATIONS**

- •ATE
- Telecom
- •Matrix requirements
- Instrumentation
- Data acquisition

#### **SPECIFICATIONS**

All parameters at 25°C otherwise stated	neters at 25°C otherwise stated					MVS4 Power/Re tion-Sens Hg-Wette		
Parameters	Min	Тур	Мах	Min	Тур	Max	Units	
Contact Ratings Switching Voltage Switching Current Carry Current Contact Rating Life Expectancy Static Contact Resistance Contact Material	Max DC/PeakAC Resistive Max DC/PeakAC Resistive Max DC/PeakAC Resistive Max DC/PeakAC Resistive Signal Level 1.0V 10mA 50V, 1A 500V, 100mA Rated Loads 50mV, 10mA		200 7 Hg	500 2 4 50		1000 2 50 7 Hg	1000 <sup>1</sup> 2 4 50 <sup>3</sup> 100	Volts Amps Amps Watts x10 <sup>6</sup> Ops x10 <sup>6</sup> Ops x10 <sup>6</sup> Ops x10 <sup>6</sup> Ops mOhms
Relay Specifications   Insulation Resistance   Capacitance   Dielectric Strength   Operate Time (no bounce)   Release Time	Between all isolated pins at 100V, 25°C, 40% RH Across Open Contacts Upper Contact to Coil Closed Contact to Coil Between Contacts Contacts to Coil At Nominal Coil Voltage 10Hz Square Wave Zener-Diode Suppression	10 <sup>8</sup> 2000 1400	10 <sup>10</sup>	2 4 1.75 1.5	10 <sup>10</sup> 2000 2500	10 <sup>12</sup> 0.8 2.2 3.3	2.5	Ohms pF pF vDC/Peak AC vDC/Peak AC ms ms
Enviromental Ratings Storage Temperature Operating Temperature Soldering Temperature Vibration Resistance (survival) Shock Resistance (survival) Weight	Applied to pins, 10sec. max 10Hz - 500Hz 11+/- 1ms, 1/2 Sine Wave	-40 -38	2.4	+105 +75 +260 10 30	-40 -38		+105 +85 +260 10 30	°C °C °C Gs Gs grams

<sup>1</sup>Current limited up to 5mA, typical 20 million operations; for further life information, consult factory.

<sup>2</sup> Vertical mounting required. Pin #1 is up.

<sup>3</sup> Derate to 5 watts when switching voltages >500V.



### MSS4/MVS4 SIP Series Reed Relays

#### **COIL SPECIFICATIONS**

	Contact Form	Coil Voltage		Coil Resistance		Operate Voltage			Release Voltage			Nominal Input Power				
Units		Volts			Ohms			Volts			Volts			mW		
Conditions					+/- 10% (25°C)			Must operate by (25°C)			Must release by (25°C)					
Part #		Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max
MSS41A05 MSS41A12 MSS41A24	1 Form A 1 Form A 1 Form A		5 12 24	10 16 30	126 450 1935	140 500 2150	154 550 2365	0.5 1 2		3.75 9 18	0.5 1 2		3.75 9 18		179 288 268	
MVS41A05(B) MVS41A12(B) MVS41A24(B)	1 Form A 1 Form A 1 Form A		5 12 24	7 15 30	94.5 450 1935	105 500 2150	116 550 2365	0.5 1 2		3.75 9 18	0.5 1 2		3.75 9 18		238 288 268	

#### **ORDERING INFORMATION**

A complete part number is represented by the digits below



USA 1.866.SRC.8668 FAR EAST 886.2.2698.8422



## MSS4/MVS4 SIP Series Reed Relays

#### **MECHANICAL DIMENSIONS**

Dimensions in mm [inches]





\*MVS4 only must be mounted vertically with pin #1 up.

### **Mouser Electronics**

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