## **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**

MSS4

Non-Position Sensitive Hq-Wetted

MVS4

High Power/Reliability Position-Sensitive<sup>2</sup> Hg-Wetted

All parameters at 25°C otherwise stated

Parameters	Conditions	Min	Тур	Max	Min	Тур	Max	Units
Contact Ratings Switching Voltage Switching Current Carry Current Contact Rating Life Expectancy  Static Contact Resistance Contact Material Hg Content	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 16	500 2 4 50		1000 2 50 7 Hg 40	1000 <sup>1</sup> 2 4 50 <sup>3</sup>	Volts Amps Amps Watts x106 Ops x106 Ops x106 Ops x106 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 2.5	Ohms  pF 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>&</sup>lt;sup>2</sup> Vertical mounting required. Pin #1 is up.

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

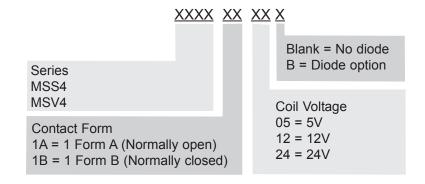


## **COIL SPECIFICATIONS**

	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



WWW.SRCDEVICES.COM

