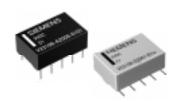
Through Hole or Surface Mount



V23106 series

Miniature, Sealed PC Board Relays

File E85596 File LR65354

Features

- · Surface and through-hole mounting types.
- Ultra low profile: 5mm height.
- DPDT contact arrangement.
- · Latching or nonlatching versions available.
- Hermetically sealed DIL plastic case.
- High sensitivity: 140mW nominal power.
- Typical applications are: telecommunications equipment, computer peripherals, office automation, measurement and control systems, and sensor control.
- Surge voltage withstand: 1,500V FCC Part 68.
- · Ultrasonic cleaning should be avoided.

Contact Data @ 20°C

Arrangements: DPDT (2 Form C), bifurcated contacts. **Material: Movable Contact:** Silver-palladium alloy.

Stationary Contact: Gold clad silver-palladium alloy.

Contact Ratings: 1A @ 30VDC.

0.5A @ 125VAC

Maximum Switched Voltage: 220VDC or 250VAC.

Maximum Switched Current: 1A AC/DC.

Maximum Carry Current: 1A.

Maximum Switched Power: 30W or 62.5VA. Minimum Switched Load: 0.01mA @ 10mVDC.

Expected Mechanical Life: 100 million operations.

Expected Electrical Life: 200,000 operations (1A @ 30VDC).

100,000 operations (0.5A @ 125VAC). **Initial Contact Resistance:** 50 milliohms maximum @ 1.5mA, 200μV.

Initial Dielectric Strength

Between Open Contacts: 1,000VAC for 1 minute.

1,500VAC FCC Part 68 Surge Test. ts: 1.000VAC for 1 minute.

Between Coil and Contacts: 1,000VAC for 1 minute.

1,500VAC FCC Part 68 Surge Test.

Between Contact Poles: 1,000VAC for 1 minute.

2,500VAC FCC Part 68 Surge Test.

Initial Insulation Resistance

Between Mutually Insulated Conductors: 109 ohms minimum @ 500VDC.

Coil Data @ 20°C

Voltage: 3 - 24VDC.

Duty Cycle: Continuous.

Nominal Voltage (VDC)	Resistance ± 10% (Ohms)	Pull-In Voltage (VDC)	Max. Voltage (VDC)	Drop-Out Voltage (VDC)	Power Consumption (mW)	Coil Code Number	
Non-Latch	ning, One Co	il				PIN SMD -J20 -M20	
3 5 6 9 12	64 178 257 579 1028	2.25 3.75 4.5 6.75 9.0	7.5 12.5 15.0 22.5 30.0	0.3 0.5 0.6 0.9 1.2	140 140 140 140 140	008 001 002 006 003	
24 2880 18.0 Latching, One Coil			48.0	2.4	200	005 PIN SMD -L21 -P21	
3 5 6 9 12 24	90 250 360 810 1440 3840	2.25 3.75 4.5 6.75 9.0 18.0	8.7 14.5 17.4 26.1 34.8 57.6	0.3 0.5 0.6 0.9 1.2 2.4	100 100 100 100 100 150	108 101 102 106 103 105	
Latching,	Two Coils					PIN SMD -K22 -N22	
3 5 6 9 12 24	45 125 180 405 720 1920	2.25 3.75 4.5 6.75 9.0 18.0	6.0 10.0 12.0 18.0 24.0 40.8	0.3 0.5 0.6 0.9 1.2 2.4	200 200 200 200 200 200 200	208 201 202 206 203 205	

Operate Data @ 20°C

Operate Voltage: 75% of nominal voltage. **Release Voltage:** 10% of nominal voltage.

Operate Time: 2ms, typical. Release Time: 1ms, typical. Set Time (Latching): 2ms, typical. Reset Time (Latching): 2ms, typical.

Environmental Data

Storage Temperature Range: -40°C to +85°C

Operating Temperature Range: -40°C to $+85^{\circ}\text{C}$ for SMD. -40°C to $+70^{\circ}\text{C}$ for PIN.

Shock: Mechanical: 100g (6ms). Electrical: 50g (11ms).

Vibration: Mechanical: 10-55 Hz. double amplitude 5mm. Electrical: 10-55 Hz. double amplitude 3mm.

Mechanical Data

Termination: Through hole or surface mount printed circuit terminals. **Enclosure Type:** Immersion cleanable, hermetically sealed DIL

plastic case.

Weight: .053 oz (1.5g) approximately.

Ordering Information

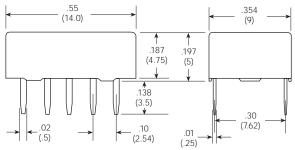
	Typical Part Number ► V23106				J20	01	B201
1.	Basic Series: V23106 = Miniature PC						
2.	2. Relay Type: J20 = pin version, monostable, 1 coil. M20 = smd version, monostable, 1 coil		L21 = pin version, latching, 1 coil. P21 = smd version, latching, 1 coil.	K22 = pin version, latching, 2 coil. N22 = smd version, latching, 2 co			
3.	Coil Number: 08 = 3VDC 01 = 5VDC	02 = 6VDC 06 = 9VDC	03 = 12VDC 05 = 24VDC				
4. Contact Arrnagement/Material: B201 = DPDT, silver gold-plated contacts.							

Stock Items

V23106J2001B201 V23106J2003B201 V23106J2005B201

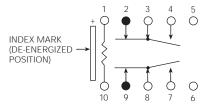
Outline Dimensions

Through-Hole

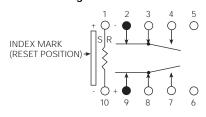


Tolerance: ± 0.3 / ± .012

Wiring Diagrams (Bottom Views) Single Side Stable

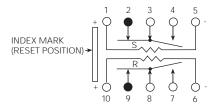


1 Coil Latching



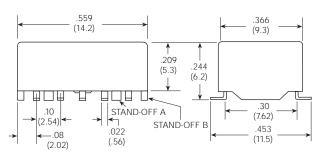
S = Set R = Reset

2 Coil Latching



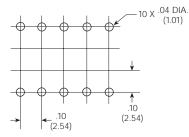
Siemens Electromechanical Components, Inc. 700 Westpark Drive Peachtree City, GA 30269-1498

Surface Mount



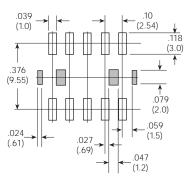
Tolerance: ± 0.3 / ± .0 12

Through-Hole Layout



Tolerance: \pm 0.1 / \pm .004

Surface Mount Layout



Tolerance: $\pm 0.1 / \pm .004$

Soldering pad for terminal.

Temporary glue pad for stand-off A or B.