



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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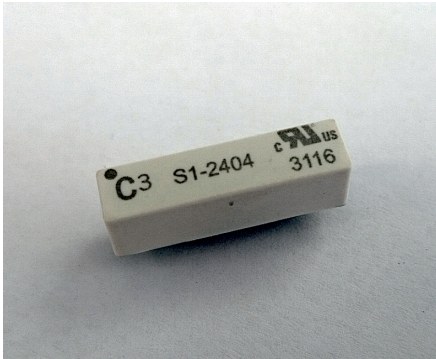
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





S1 Relay Series

Miniature high voltage relay



Actual device may differ

- Single in-line package
- 4kV Isolation Voltage across contacts
- Isolation Voltage 5kV contact to coil
- 2.5A carry current
- Up to 350V switching voltage

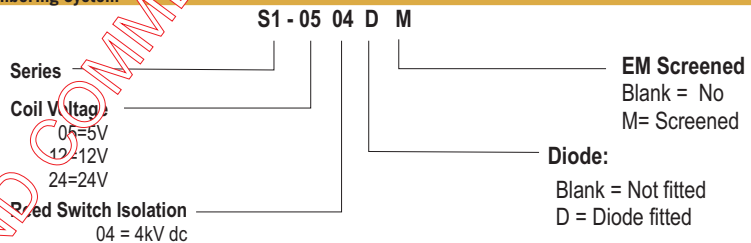
| Contact Specification | Conditions | 5V coil | 12V coil | 24V coil |
|-----------------------------|----------------------------|---------|--------------------------------------|----------|
| Switch action | | | SPST (Form A) | |
| Material | | | Rhodium | |
| Isolation across contacts | kV DC or AC peak | | 4 | |
| Switching Power Max. | VA | | 100 | |
| Switching Voltage Max. | V | | 350dc/30V/c | |
| Switching Current Max. | A DC or AC peak | | 1.0 | |
| Carry Current Max. | A DC | | 0.5 | |
| Capacitance across contacts | pF coil to screen grounded | | 0.5 (typical) | |
| Lifetime operations | dry switching | | 10 ⁹ | |
| Contact Resistance | mΩ max | | 100 | |
| Insulation Resistance | Ωmin (typical) | | 10 ¹⁰ (10 ¹³) | |

| Coil Specification (@ 20°C) | | | | |
|-----------------------------|-----------------|------|------|-----------|
| Must Operate Voltage | V DC | | 10.8 | 16 |
| Must Release Voltage | V DC | 1.25 | 1.25 | 1.25 |
| Operate Time | ms diode fitted | 1 | 1 | 1 (TBC) |
| Release Time | ms diode fitted | 0.5 | 0.5 | 0.5 (TBC) |
| Resistance | Ω (± 10%) | 180 | 500 | 1000 |

| Relay Specification | | | | |
|--|----------------|--|-----|--|
| Isolation contact/coil | kV DC | | 5 | |
| Insulation resistance contact to all terminals | Ωmin (typical) | | TBC | |

| Environmental | | | | |
|----------------------|----|--|-------------|--|
| Operating Temp range | °C | | -40 to +85 | |
| Storage Temp range | °C | | -40 to +100 | |

| Part Numbering System | | | | |
|-----------------------|--|--|--|--|
|-----------------------|--|--|--|--|

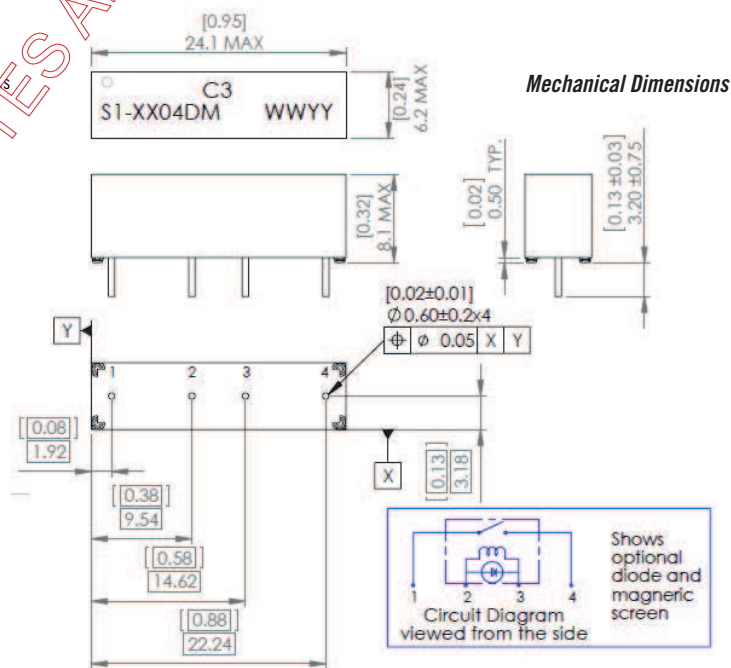


The S1 series is a miniature high voltage single-in-line reed relay for applications where space saving is a prime consideration.

The coil pins are positioned near the centre of the relay while the contact pins are near the ends to give improved isolation between the high voltage contacts and the low voltage coil.

Please refer to this document for circuit design notes:- <http://www.cynergy3.com/blog/application-notes-reed-relays-0>

Custom versions can be designed for particular applications. Please contact Cynergy3 with your requirements.



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ISO9001 CERTIFIED

S1 Series 2016

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