

- Compact Footprint
- Designed Specifically for High Voltage
- Rhodium Contacts for Low Resistance
- 3 or 5kV Isolation between Contacts
- Excellent Lifetime Characteristics

S Series
5kV, 10W

Developed for the high voltage ATE market, where PCB space is at a premium, the S Series High Voltage Reed Relay offers a 3 or 5kV isolation performance in a 30mm size package. With low contact resistance, the S Series High Voltage Reed Relay will satisfy the many high voltage applications at DC and low frequency, where performance and reliability are paramount.

| CONTACT | UNITS | CONDITIONS | 3KV FORM A | | | 5KV FORM A | | |
|-----------------------------|------------|----------------------|--------------------------------------|------|------|--------------------------------------|------|------|
| Contact material | | | Rhodium | | | Rhodium | | |
| Isolation across contacts | kV | DC or AC peak | 3 | | | 5 | | |
| Max. carry current | A | DC or AC rms (60Hz) | 2 | | | 2 | | |
| Max. switching power | W | | 10 | | | 10 | | |
| Max. switching voltage | V | DC or AC peak | 20 | | | 20 | | |
| Max. switching current | A | DC or AC peak | 0.5 | | | 0.5 | | |
| Capacitance across contacts | pF | coil/screen grounded | <0.1 | | | <0.1 | | |
| Lifetime | operations | dry switching | 10 ⁹ | | | 10 ⁹ | | |
| Lifetime | operations | 10W switching | 10 ⁸ | | | 10 ⁸ | | |
| Contact resistance | mOhms | maximum (typical) | 80 (30) | | | 80 (30) | | |
| Insulation Resistance | Ohms | minimum (typical) | 10 ¹⁰ (10 ¹³) | | | 10 ¹⁰ (10 ¹³) | | |
| COIL AT 20°C | | | 5V | 12V | 24V | 5V | 12V | 24V |
| Must Operate | V | DC | 3.7 | 9 | 20 | 3.7 | 9 | 20 |
| Must Release | V | DC | 0.5 | 1.25 | 2 | 0.5 | 1.25 | 2 |
| Operate Time | ms | diode fitted | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Release Time | ms | diode fitted | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Resistance | Ohms | | 140 | 600 | 1000 | 140 | 600 | 1000 |
| CONSTRUCTION | | | | | | | | |
| Isolation contact to coil | kV | DC or AC peak | 3 | | | 5* | | |
| to all other terminals | Ohms | minimum (typical) | 10 ¹⁰ (10 ¹³) | | | 10 ¹⁰ (10 ¹³) | | |
| ENVIRONMENTAL | | | | | | | | |
| Operating temperature range | °C | | -20 to +70 | | | -20 to +70 | | |

*Additional insulation may be necessary

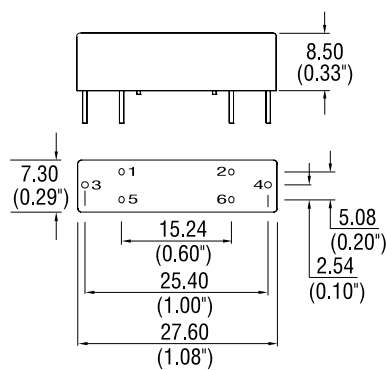
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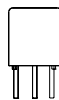
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| PART NUMBERING SYSTEM | | | | | | S | A | R | 9 | 12 | 05 |
|----------------------------|--|--|--|--|--|---|---|---|---|----|----|
| Reedswitch Size - S | | | | | | | | | | | |
| Contact Form | | | | | | | | | | | |
| A: Form A | | | | | | | | | | | |
| Contact Material | | | | | | | | | | | |
| R: Rhodium | | | | | | | | | | | |
| Moulding Ref. No. | | | | | | | | | | | |
| Coil Voltage | | | | | | | | | | | |
| 05: 5V, 12: 12V, 24: 24V | | | | | | | | | | | |
| Isolation Between Contacts | | | | | | | | | | | |
| 03: 3kV 05: 5kV | | | | | | | | | | | |

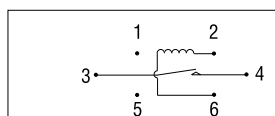
MECHANICAL



PIN SIZE
PINS 1, 2, 5 & 6 0.7 Square (0.025")
PINS 3 & 4 0.8 (0.031") dia.



CIRCUIT DIAGRAM



high voltage
reed relays

