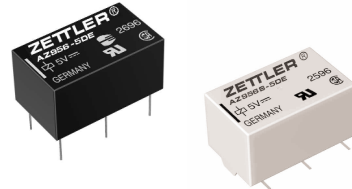


AZ956P

MICROMINIATURE POLARIZED BISTABLE (LATCHING) RELAY

FEATURES

- Microminiature size: up to 50% less board area than previous generation telecom relays
- Meets FCC Part 68.302 1500 V lightning surge
- High dielectric and surge voltage:
- Low power consumption: 36 mW pickup
- Stable contact resistance for low level signal switching
- Epoxy sealed
- UL, CUR file E43203
- All plastics meet UL94 V-O, 30 min. oxygen index



CONTACTS

| | |
|-------------------------------|--|
| Arrangement | SPDT (1 Form C) Bifurcated crossbar contacts |
| Ratings | Resistive load: Max. switched power: 30 W or 60 VA Max. switched current: 1.0 A Max. switched voltage: 150 VDC or 125 VAC |
| Rated Load UL, CUR | 0.5 A at 120 VAC 1.0 A at 30 VDC |
| Material | Palladium nickel with gold-rhodium overlay |
| Resistance | < 50 milliohms initially (6 V, 10 mA method) |

COIL (Polarized)

| | |
|--|---------------------------------------|
| Power At Pickup Voltage (typical) | 36 mW |
| Max. Continuous Dissipation | 0.5 W at 20°C (68°F) |
| Temperature Rise | At nominal coil voltage 8°C (15°F) |
| Temperature | Max. 105°C (221°F) |

NOTES

1. All values at 20°C (68°F).
2. Relay may set or reset in with less than "Must Operate" value.
3. Relay has fixed coil polarity.
4. Specifications subject to change without notice.

GENERAL DATA

| | |
|--|--|
| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁹ 2.5 x 10 ⁵ at 0.4 A, 125 VAC, resistive 3 x 10 ⁶ at 1.0 A, 24 VDC, resistive |
| Set Time (typical) | 1 ms at nominal coil voltage |
| Reset Time (typical) | 0.9 ms at nominal coil voltage |
| Bounce (typical) | At 10 mA contact current 1 ms at set or reset |
| Dielectric Strength (at sea level) | 1500 Vrms contact to coil 500 Vrms between open contacts |
| Insulation Resistance | 10 ⁹ ohms min. at 25°C, 500 VDC, 50% RH |
| Ambient Temperature Operating Storage | At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F) |
| Vibration | Operational, 40 g, 10–200 Hz |
| Shock | Operational, 50 g min., 11 ms Non-destructive, 150 g min., 11 ms |
| Max. Solder Temp. Temp./Time | Vapor phase: 215°C, 40 Sec. Infrared: 215°C, 40 Sec. Double wave: 260°C, 10 Sec. |
| Max. Solvent Temp. | 80°C (176°F) |
| Max. Immersion Time | 30 seconds |
| Weight | 1.8 grams |
| Enclosure | P.B.T. polyester |
| Terminals | Tinned copper alloy, P.C. |

ZETTLER electronics GmbH

Junkersstrasse 3, D-82178 Puchheim, Germany

Tel. +49 89 800 97 0
Fax +49 89 800 97 200

office@ZETTLERelectronics.com
www.ZETTLERelectronics.com

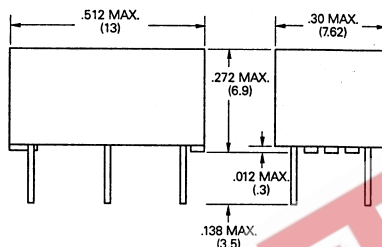
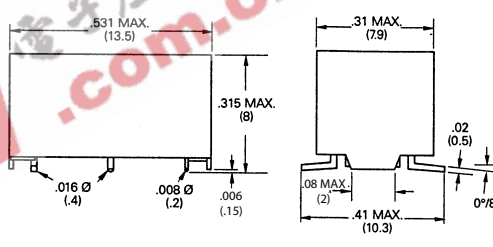
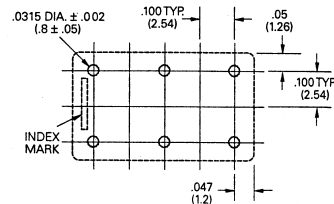
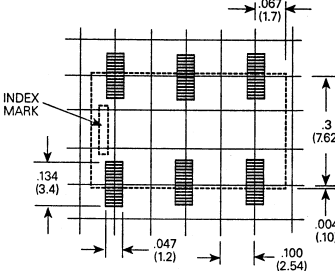
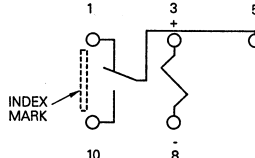
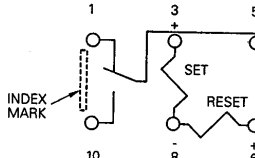
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RELAY ORDERING DATA

| STANDARD SINGLE COIL | | | | Order Number | |
|----------------------|--------------------|----------------------------|------------------|------------------|----------------|
| Nominal Coil VDC | Max. Operating VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC | THT Through Hole | SMT |
| 1.5 | 6 | 61 | 1.13 | AZ956P1-1.5DE | AZ956P1S-1.5DE |
| 3 | 13 | 300 | 2.25 | AZ956P1-3DE | AZ956P1S-3DE |
| 5 | 20 | 740 | 3.75 | AZ956P1-5DE | AZ956P1S-5DE |
| 9 | 35 | 2,160 | 6.75 | AZ956P1-9DE | AZ956P1S-9DE |
| 12 | 50 | 4,500 | 9.00 | AZ956P1-12DE | AZ956P1S-12DE |
| 15 | 50 | 4,500 | 11.30 | AZ956P1-15DE | AZ956P1S-15DE |
| 24 | 50 | 4,500 | 18.00 | AZ956P1-24DE | AZ956P1S-24DE |

| STANDARD DUAL COIL | | | | Order Number | |
|--------------------|--------------------|----------------------------|------------------|------------------|----------------|
| Nominal Coil VDC | Max. Operating VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC | THT Through Hole | SMT |
| 1.5 | 4.25 | 32 | 1.13 | AZ956P2-1.5DE | AZ956P2S-1.5DE |
| 3 | 8.55 | 130 | 2.25 | AZ956P2-3DE | AZ956P2S-3DE |
| 5 | 14.75 | 390 | 3.75 | AZ956P2-5DE | AZ956P2S-5DE |
| 9 | 25.60 | 1,200 | 6.75 | AZ956P2-9DE | AZ956P2S-9DE |
| 12 | 29.00 | 1,500 | 9.00 | AZ956P2-12DE | AZ956P2S-12DE |
| 15 | 29.00 | 1,500 | 11.30 | AZ956P2-15DE | AZ956P2S-15DE |

MECHANICAL DATA

| | |
|--|--|
| <p>THT</p>  | <p>SMT</p>  |
| <p>PC BOARD LAYOUT Viewed toward terminals</p>  | <p>PC BOARD LAYOUT Viewed toward terminals</p>  |
| <p>Wiring Diagram Viewed toward terminals</p> <p>Single Coil Latching Shown in reset Position</p>  | <p>Dual Coil Latching Shown in reset position</p>  |

Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

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Junkersstrasse 3, D-82178 Puchheim, Germany

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Fax +49 89 800 97 200

office@ZETTLERelectronics.com

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