

AZ832P

POLARIZED DIP RELAY BISTABLE (LATCHING)

FEATURES

- High sensitivity, 42 mW pickup
- Low profile DIP package
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- Single and dual coil versions
- DC coils to 24 VDC
- High switching capacity, 60 W, 250 VA
- Fits standard 16 pin IC socket
- Epoxy sealed
- UL, CUR file E43203



CONTACTS

| | |
|--------------------------|---|
| Arrangement | DPDT (2 Form C) Bifurcated crossbar contacts |
| Ratings | Resistive load: Max. switched power: 60 W or 250 VA Max. switched current: 5 A Max. switched voltage: 250 VDC or 250 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory. |
| Rated Load UL | 2 A at 25 VDC resistive 1 A at 120 VAC resistive |
| Material | Gold plated silver against palladium silver. Gold plated palladium silver against palladium silver (Suffix "A") |
| Resistance | < 50 milliohms initially |

GENERAL DATA

| | |
|--|---|
| Life Expectancy Mechanical Electrical | Minimum operations 2 x 10 ⁷ 1 x 10 ⁵ at 2 A, 30 VDC or 1 A, 125 VAC 2 x 10 ⁶ at 1 A, 30 VDC or .5 A, 125 VAC |
| Set Time (typical) | 3 ms at nominal coil voltage |
| Reset Time (typical) | 3 ms at nominal coil voltage |
| Bounce (typical) | 3 ms |
| Dielectric Strength (at sea level) | 1500 Vrms contact to coil 1000 Vrms between contact sets 1000 Vrms across contacts Meets FCC Part 68.302 lightning surge Meets FCC Part 68.304 V dielectric |
| Insulation Resistance | 1000 megohms min. at 20°C, 500 VDC, 50% RH |
| Ambient Temperature Operating Storage | At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F) |
| Vibration | 50 g at 10–500 Hz |
| Shock | 50 g |
| Enclosure | P.B.T. polyester |
| Terminals | Tinned copper alloy, P.C. |
| Max. Solder Temp. | 270°C (518°F) |
| Max. Solder Time | 5 seconds |
| Max. Solvent Temp. | 80°C (176°F) |
| Max. Immersion Time | 30 seconds |
| Weight | 5 grams |

COIL

| | |
|--|--|
| Power At Pickup Voltage (typical) Max. Continuous Dissipation | Standard coil: 128 mW Sensitive coil: 96 mW 0.9 W at 20°C (68°F) |
| Temperature | Max. 115°C (239°F) |

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Relay has fixed coil polarity.
4. For complete isolation between the relay's magnetic fields, it is recommended that a .197" (5.0 mm) space be provided between adjacent relays.
5. Relay adjustment may be affected if undue pressure is exerted on relay case.
6. Specifications subject to change without notice.

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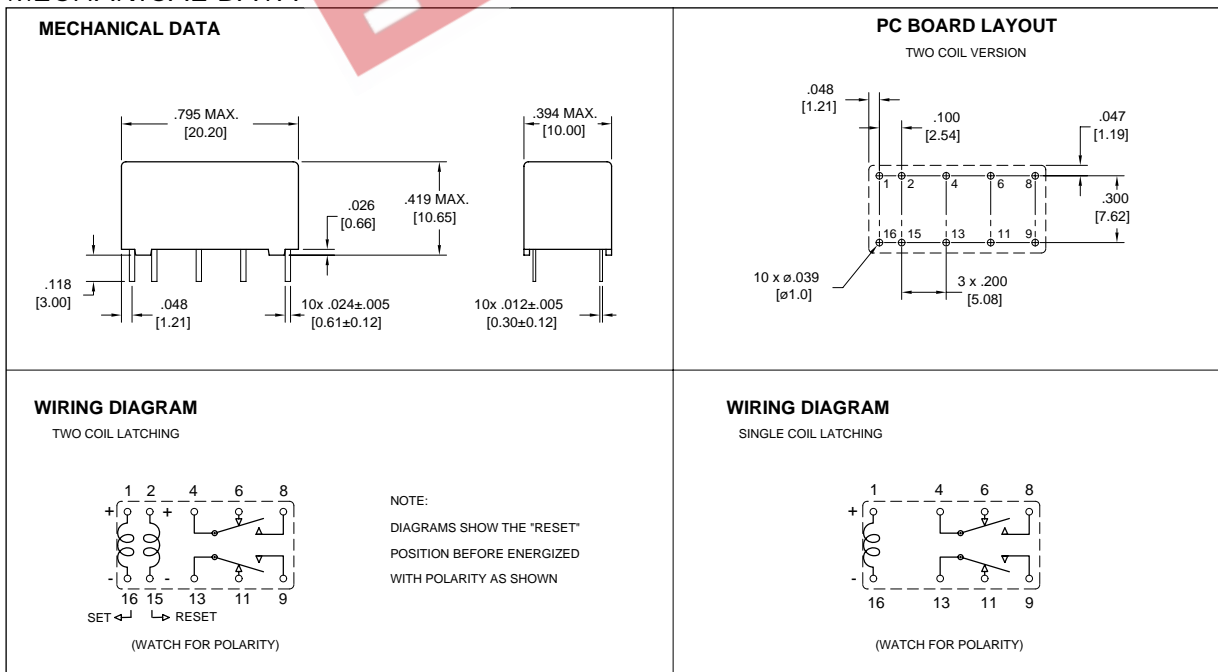
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RELAY ORDERING DATA

| STANDARD SINGLE COIL | | | | |
|-----------------------|---------------------|----------------------------|---------------|------------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER* |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Set Reset VDC | |
| 3 | 9.0 | 90 | 2.25 | AZ832P1-2C-3DE |
| 5 | 15.0 | 250 | 3.75 | AZ832P1-2C-5DE |
| 12 | 36.0 | 1,440 | 9.0 | AZ832P1-2C-12DE |
| 24 | 60.0 | 4,000 | 18.0 | AZ832P1-2C-24DE |
| SENSITIVE SINGLE COIL | | | | |
| 3 | 10.4 | 120 | 2.25 | AZ832P1-2C-3DSE |
| 5 | 17.2 | 330 | 3.75 | AZ832P1-2C-5DSE |
| 12 | 41.6 | 1,920 | 9.0 | AZ832P1-2C-12DSE |
| 24 | 83.1 | 7,680 | 18.0 | AZ832P1-2C-24DSE |
| STANDARD DUAL COIL | | | | |
| COIL SPECIFICATIONS | | | | ORDER NUMBER* |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Set Reset VDC | |
| 3 | 6.4 | 45 | 2.25 | AZ832P2-2C-3DE |
| 5 | 10.6 | 125 | 3.75 | AZ832P2-2C-5DE |
| 12 | 25.5 | 720 | 9.0 | AZ832P2-2C-12DE |
| 24 | 42.8 | 2,040 | 18.0 | AZ832P2-2C-24DE |
| SENSITIVE DUAL COIL | | | | |
| 3 | 7.3 | 60 | 2.25 | AZ832P2-2C-3DSE |
| 5 | 12.3 | 167 | 3.75 | AZ832P2-2C-5DSE |
| 12 | 29.4 | 960 | 9.0 | AZ832P2-2C-12DSE |
| 24 | 58.8 | 3,840 | 18.0 | AZ832P2-2C-24DSE |

*Add suffix "A" for gold plated palladium silver against palladium silver contact material.

MECHANICAL DATA



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

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