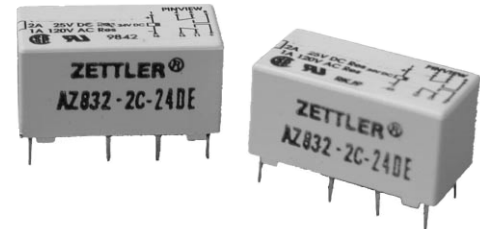


AZ832

POLARIZED DIP RELAY SINGLE SIDE STABLE

FEATURES

- Low profile for compact board spacing
- DC coils to 48 VDC
- High sensitivity, 96 mW pickup
- Life expectancy to 20 million operations
- High switching capacity, 150 W, 250 VA
- Fits standard 16 pin IC socket
- Epoxy sealed for automatic wave soldering and cleaning
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- UL file E43203; CSA file LR702225



CONTACTS

| | |
|------------------------------|--|
| Arrangement | DPDT (2 Form C) Bifurcated crossbar contacts |
| Ratings | Resistive load: Max. switched power: 150 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/CSA | 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 |

COIL

| | |
|--|--|
| Power At Pickup Voltage (typical) | Standard coil: 128 mW Sensitive coil: 96 mW |
| Max. Continuous Dissipation | 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. |

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 |
| Operate Time (typical) | 3 ms at nominal coil voltage |
| Release Time (typical) | 2 ms at nominal coil voltage (with no coil suppression) |
| 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 |
| Dropout | Greater than 10% of nominal coil voltage |
| Ambient Temperature Operating Storage | At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 115°C (239°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 |

ZETTLER electronics

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AZ832

RELAY ORDERING DATA

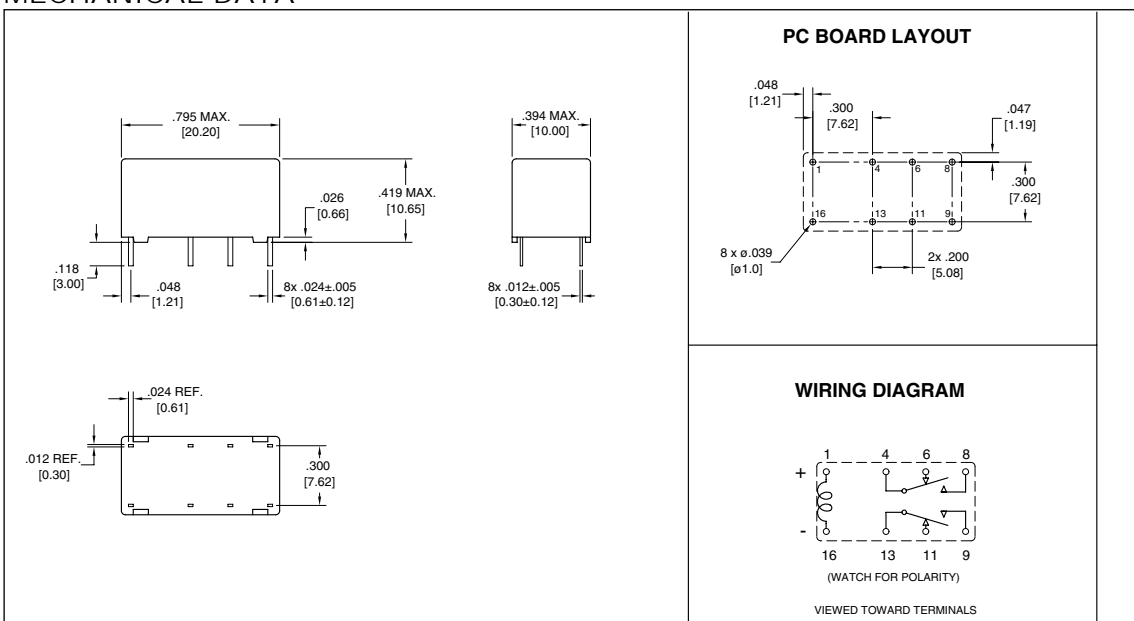
| STANDARD COIL | | | | |
|---------------------|---------------------|----------------------------|------------------|----------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER* |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC | |
| 3 | 6.4 | 45.0 | 2.4 | AZ832-2C-3DE** |
| 5 | 10.6 | 125 | 4.0 | AZ832-2C-5DE |
| 6 | 12.7 | 180 | 4.8 | AZ832-2C-6DE |
| 9 | 19.1 | 405 | 7.2 | AZ832-2C-9DE |
| 12 | 25.5 | 720 | 9.6 | AZ832-2C-12DE |
| 24 | 50.9 | 2,880 | 19.2 | AZ832-2C-24DE |
| 48 | 101.8 | 11,520 | 38.4 | AZ832-2C-48DE |

| NON-SENSITIVE COIL | | | | |
|---------------------|---------------------|----------------------------|------------------|-----------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER* |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC | |
| 3 | 5.7 | 36 | 2.25 | AZ832-2C-3DME** |
| 5 | 9.2 | 95 | 3.75 | AZ832-2C-5DME |
| 6 | 11.0 | 150 | 4.5 | AZ832-2C-6DME |
| 12 | 23.2 | 600 | 9.0 | AZ832-2C-12DME |
| 24 | 44.6 | 2210 | 18.0 | AZ832-2C-24DME |
| 48 | 93.7 | 9750 | 36.0 | AZ832-2C-48DME |

| SENSITIVE COIL | | | | |
|---------------------|---------------------|----------------------------|------------------|----------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER* |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC | |
| 5 | 12.3 | 167 | 4.0 | AZ832-2C-5DSE |
| 6 | 14.5 | 240 | 4.8 | AZ832-2C-6DSE |
| 9 | 21 | 540 | 7.2 | AZ832-2C-9DSE |
| 12 | 29 | 960 | 9.6 | AZ832-2C-12DSE |
| 24 | 57 | 3840 | 19.2 | AZ832-2C-24DSE |

*Add suffix "A" for gold plated palladium silver against palladium silver contact material. **3 V coils not UL/CSA approved

MECHANICAL DATA



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

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