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, 60 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, CUR file E43203



| Arrangement | DPDT (2 Form C) Bifurcated crossbar contacts | | |
|------------------|--|--|--|
| Ratings | Resistive load: Max. switched power: 60 W or 250 VA Max. switched current: 2 A Max. switched voltage: 250 VDC or 250 VAC | | |
| Rated Load UL | 2 A at 30 VDC resistive 2 A at 125 VAC resistive | | |
| Material | Gold plated silver against palladium silver. Gold plated palladium silver against palladium silver Gold plated silver against gold plated silver | | |
| Resistance | < 50 milliohms initially | | |

COIL

| Power | |
|--------------------------------|--|
| At Pickup Voltage (typical) | Non-Sensitive Coil: 252 mW Standard Coil: 135 mW Sensitive Coil: 128 mW Ultra-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.
- For complete isolation between the relay's magnetic fields, it is recommended that a .197" (5.0 mm) space be provided between adjacent relays.
- Relay adjustment may be affected if undue pressure is exerted on relay case.
- 6. Specifications subject to change without notice.



GENERAL DATA

| 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 | | |



AMERICAN ZETTLER, INC.

AZ832 _

RELAY ORDERING DATA

| ULTRA SENSITIVE COIL | | | | |
|------------------------|---------------------------|-----------------------------|------------------------|----------------|
| COIL SPECIFICATIONS | | | | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance ± 10% | Must Operate VDC | ORDER NUMBER* |
| 5 | 12.3 | 167 | 4.0 | AZ832-2C-5DSE |
| 6 | 14.5 | 240 | 4.8 | AZ832-2C-6DSE |
| 9 | 21.0 | 540 | 7.2 | AZ832–2C–9DSE |
| 12 | 29.0 | 960 | 9.6 | AZ832-2C-12DSE |
| 18 | 43.5 | 2160 | 14.4 | AZ832-2C-18DSE |
| 24 | 57.0 | 3840 | 19.2 | AZ832-2C-24DSE |

| SENSITIVE COIL | | | | |
|------------------------|---------------------------|-----------------------------|------------------------|---------------|
| COIL SPECIFICATIONS | | | | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance ± 10% | Must Operate VDC | ORDER NUMBER* |
| 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 |
| 18 | 38.3 | 1620 | 14.4 | AZ832-2C-18DE |
| 24 | 50.9 | 2,880 | 19.2 | AZ832-2C-24DE |
| 48 | 101.8 | 11,520 | 38.4 | AZ832-2C-48DE |

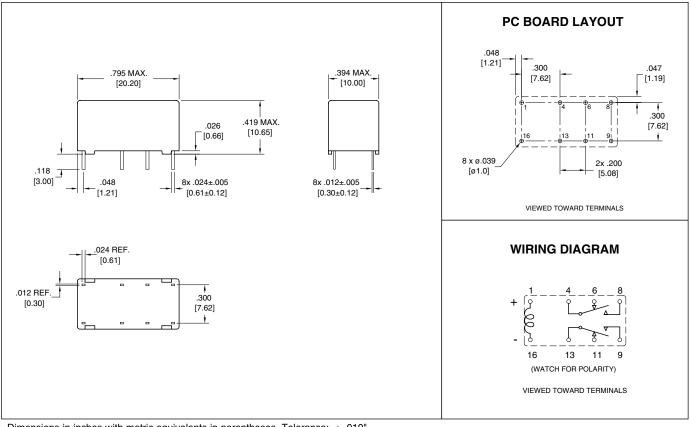
| STANDARD COIL | | | | |
|------------------------|---------------------------|-----------------------------|------------------------|----------------|
| COIL SPECIFICATIONS | | | | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance ± 10% | Must Operate VDC | ORDER NUMBER* |
| 3 | 5.7 | 36 | 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 |
| 18 | 34.8 | 1350 | 13.5 | AZ832-2C-18DME |
| 24 | 44.6 | 2210 | 18.0 | AZ832-2C-24DME |

| NON-SENSITIVE COIL | | | | |
|------------------------|---------------------------|-----------------------------|------------------------|----------------|
| COIL SPECIFICATIONS | | | | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance ± 10% | Must Operate VDC | ORDER NUMBER* |
| 5 | 6.3 | 36 | 3.5 | AZ832-2C-5DHE |
| 6 | 8.9 | 70 | 4.2 | AZ832-2C-6DHE |
| 9 | 12.5 | 140 | 5.3 | AZ832-2C-9DHE |
| 12 | 17.8 | 280 | 8.4 | AZ832–2C–12DHE |
| 18 | 26.7 | 630 | 12.6 | AZ832-2C-18DHE |
| 24 | 34.4 | 1050 | 16.8 | AZ832-2C-24DHE |

^{*}Add suffix "A" for gold plated palladium silver against palladium silver contact material. Add suffix "L" for gold plated silver against gold plated silver contact material.

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MECHANICAL DATA



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