## MICROMINIATURE <br> POLARIZED RELAY

## FEATURES

- Microminiature size: Height: . 197 inches ( 5 mm ); Length: . 551 inches ( 14 mm ); Width: . 354 inches ( 9 mm )
- High sensitivity, 79 mW pickup
- Monostable and bistable (latching) single coil and two coil versions available
- Meets FCC Part 68.3021500 V lightning surge
- DIP terminal layout, fits 10 pin IC socket
- Epoxy sealed for automatic wave soldering and cleaning
- UL file E43203, CSA file 73363


## CONTACTS

| Arrangement | DPDT (2 Form C) <br> Bifurcated crossbar contacts |
| :--- | :--- |
| Ratings | Resistive load: <br> Max. switched power: 30 W or 62.5 VA <br> Max. switched current: 1 A <br> Max. switched voltage: 22 VDC or 250 VAC <br> Max. carry current: 2 A |
| Rated Load <br> UL/CSA | 1 A at 30 VDC <br> 0.5 A at 125 VAC |
| Material | Silver palladium; gold clad |
| Resistance | $<50$ milliohms initially |

COIL (Polarized)

| Power <br> At Pickup Voltage <br> (typical) | Single side stable: 79-142 mW <br> Bistable (latching) single coil: 56-84 mW |
| :--- | :--- |
| Max. Continuous | Bistable (latching) two coil: 113-169 mW <br> Dissipation <br> Temperature Rise |
| 185 mW at $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ ambient $\left(32^{\circ} \mathrm{F}\right)$ at nominal coil voltage |  |
| Temperature | Max. $105^{\circ} \mathrm{C}\left(221^{\circ} \mathrm{F}\right)$ |

## NOTES

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


GENERAL DATA

| Life Expectancy Mechanical Electrical | Minimum operations $1 \times 108$ <br> $2 \times 10^{5}$ at $1 \mathrm{~A}, 30$ VDC <br> $1 \times 10^{5}$ at $0.5 \mathrm{~A}, 125 \mathrm{VAC}$ |
| :---: | :---: |
| Operate Time (typical) | 2 ms at nominal coil voltage |
| Release Time (typical) | 1 ms at nominal coil voltage (with no coil suppression) |
| Set Time (bistable versions) | 2 ms at nominal coil voltage (typical) |
| Reset Time (bistable versions) | 2 ms at nominal coil voltage (typical) |
| Dropout | Greater than 10\% of nominal coil voltage |
| Capacitance | Contact to contact: 0.4 pF Contact set to contact set: 0.2 pF Contact to coil: 0.9 pF |
| Dielectric Strength (at sea level) | 1000 Vrms between contact sets <br> 1000 Vrms across contacts <br> 1250 Vrms contact to coil <br> Meets FCC part 68.302 1500 V lightning surge |
| Insulation Resistance | 1000 megohms min. at $25^{\circ} \mathrm{C}, 500 \mathrm{VDC}$, 50\% RH |
| Ambient Temperature Operating Storage | At nominal coil voltage $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $70^{\circ} \mathrm{C}\left(158^{\circ} \mathrm{F}\right)$ <br> $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $105^{\circ} \mathrm{C}\left(221^{\circ} \mathrm{F}\right)$ |
| Vibration | .130" DA at $10-55 \mathrm{~Hz}$ |
| Shock | 50 g |
| Enclosure | LCP |
| Terminals | Tinned copper alloy, P.C. |
| Max. Solder Temp. | $250^{\circ} \mathrm{C}\left(482^{\circ} \mathrm{F}\right)$ |
| Max. Solder Time | 5 seconds |
| Max. Solvent Temp. | $80^{\circ} \mathrm{C}\left(176{ }^{\circ} \mathrm{F}\right)$ |
| Max. Immersion Time | 30 seconds |
| Weight | 1.5 grams |

## ZETTLER electronics

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RELAY ORDERING DATA

| SINGLE SIDE STABLE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| COIL SPECIFICATIONS |  |  |  |  |
| Nominal Coil <br> VDC | Max. Continuous <br> VDC | Coil Resistance <br> $\pm \mathbf{1 0 \%}$ | Must Operate <br> VDC | ORDER NUMBER |
| 3 | 7.5 | 64.3 | 2.1 |  |
| 4.5 | 11.25 | 145.2 | 3.15 | AZ850-4.5 |
| 5 | 12.5 | 178 | 3.5 | AZ850-5 |
| 6 | 15.0 | 257 | 4.2 | AZ850-6 |
| 9 | 22.5 | 579 | 6.3 | AZ850-9 |
| 12 | 30.0 | 1,028 | 8.4 | AZ850-12 |
| 24 | 48.0 | 2,880 | 16.8 | AZ850-24 |

BISTABLE (LATCHING) SINGLE COIL

| COIL SPECIFICATIONS |  |  |  | ORDER NUMBER |
| :---: | :---: | :---: | :---: | :---: |
| Nominal Coil <br> VDC | Max. Continuous <br> VDC | Coil Resistance <br> $\mathbf{\pm 1 0 \%}$ | Must Operate <br> VDC |  |
| 3 | 8.7 | 90 | 2.1 | AZ850P1-3 |
| 4.5 | 13.0 | 203 | 3.2 | AZ850P1-4.5 |
| 5 | 14.5 | 250 | 3.5 | AZ850P1-5 |
| 6 | 17.4 | 360 | 4.2 | AZ850P1-6 |
| 9 | 26.1 | 810 | 6.3 | AZ850P1-9 |
| 12 | 34.8 | 1440 | 8.4 | AZ850P1-12 |
| 24 | 57.6 | 3840 | 16.8 | AZ850P1-24 |

## BISTABLE (LATCHING) TWO COIL

| COIL SPECIFICATIONS |  |  |  |  | ORDER NUMBER |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nominal Coil | Max. Continuous VDC | Coil Resistance $\pm 10 \%$ |  | Must Operate |  |
| VDC |  | Coil I | Coil II | VDC |  |
| 3 | 6.0 | 45 | 45 | 2.1 | AZ850P2-3 |
| 4.5 | 13.0 | 102 | 102 | 3.2 | AZ850P2-4.5 |
| 5 | 10.0 | 125 | 125 | 3.5 | AZ850P2-5 |
| 6 | 12.0 | 180 | 180 | 4.2 | AZ850P2-6 |
| 9 | 18.0 | 405 | 405 | 6.3 | AZ850P2-9 |
| 12 | 24 | 720 | 720 | 8.4 | AZ850P2-12 |
| 24 | 40 | 1,920 | 1,920 | 16.8 | AZ850P2-24 |

MECHANICAL DATA


Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm 0.010^{\prime \prime}$

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