## POLARIZED DIP RELAY BISTABLE (LATCHING)

## FEATURES

- High sensitivity, 86 mW pickup
- Low profile DIP package
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.3041000 V dielectric
- Epoxy sealed for automatic wave soldering and cleaning
- DC coils to 48 VDC
- High switching capacity, 60 W, 125 VA
- Fits standard 16 pin IC socket
- UL file E43203


## CONTACTS

| Arrangement | DPDT (2 Form C) <br> Bifurcated crossbar contacts |
| :--- | :--- |
| Ratings | Resistive load: <br> Max. switched power: 60 W or 125 VA <br> Max. switched current: 2 A <br> Max. switched voltage: 150 VDC or 300 VAC |
| Rated Load <br> UL | 2 A at 30 VDC <br> 1 A at 120 VAC |
| Material | Silver alloy, gold clad. |
| Resistance | $<50$ milliohms initially |

## COIL (Polarized)

| Power |  |
| :--- | :--- |
| At Pickup Voltage | Standard coil: 176 mW |
| (typical) | Sensitive coil: 90 mW |
|  | Ultra-Sensitive coil: 86 mW |
| Max. Continuous | 1.2 W at $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ ambient |
| Dissipation | 0.9 W at $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$ ambient |
| Temperature Rise | Standard: $38^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ at nominal coil voltage |
|  | Sensitive: $21^{\circ} \mathrm{C}\left(38^{\circ} \mathrm{F}\right)$ at nominal coil voltage |
|  | Ultra-Sensitive: $16^{\circ} \mathrm{C}\left(29^{\circ} \mathrm{F}\right)$ at nominal coil voltage |
| Temperature | Max. $115^{\circ} \mathrm{C}\left(239^{\circ} \mathrm{F}\right)$ |

## NOTES

1. All values at $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$.
2. Relay may pull in with less than "Must Operate" value.
3. Relay has fixed coil polarity.
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 <br> Mechanical <br> Electrical | Minimum operations <br> $1 \times 10^{8}$ <br> $1 \times 10^{5}$ at $2 \mathrm{~A}, 30 \mathrm{VDC}$ or 1 A, 125 VAC <br> $2 \times 10^{6}$ at 1 A, 30 VDC or .5 A, 125 VAC |
| :--- | :--- |
| Set Time (typical) | 3 ms at nominal coil voltage |

RELAY ORDERING DATA

| COIL SPECIFICATIONS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| STANDARD COIL |  |  |  |  |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance $\pm 10 \%$ | $\begin{gathered} \text { Set } \\ \text { Reset } \\ \text { VDC } \end{gathered}$ | ORDER NUMBER* |
| 3 | 4.5 | 25 | 2.1 | AZ830P2-2C-3DE |
| 5 | 7.5 | 69.4 | 3.5 | AZ830P2-2C-5DE |
| 6 | 9.0 | 100 | 4.2 | AZ830P2-2C-6DE |
| 9 | 13.5 | 225 | 6.3 | AZ830P2-2C-9DE |
| 12 | 18.0 | 400 | 8.4 | AZ830P2-2C-12DE |
| 24 | 36.0 | 1600 | 16.8 | AZ830P2-2C-24DE |
| 48 | 72.0 | 6400 | 33.6 | AZ830P2-2C-48DE |
| SENSITIVE COIL |  |  |  |  |
| 3 | 6.4 | 50 | 2.1 | AZ830P2-2C-3DSE |
| 5 | 10.6 | 139 | 3.5 | AZ830P2-2C-5DSE |
| 6 | 12.7 | 200 | 4.2 | AZ830P2-2C-6DSE |
| 9 | 19.1 | 450 | 6.3 | AZ830P2-2C-9DSE |
| 12 | 25.5 | 800 | 8.4 | AZ830P2-2C-12DSE |
| 24 | 50.9 | 3200 | 16.8 | AZ830P2-2C-24DSE |
| ULTRA-SENSITIVE COIL |  |  |  |  |
| 3 | 7.3 | 66.7 | 2.4 | AZ830P2-2C-3DSSE |
| 5 | 12.3 | 185 | 4.0 | AZ830P2-2C-5DSSE |
| 6 | 14.7 | 267 | 4.8 | AZ830P2-2C-6DSSE |
| 9 | 22.0 | 600 | 7.2 | AZ830P2-2C-9DSSE |
| 12 | 29.4 | 1067 | 9.6 | AZ830P2-2C-12DSSE |
| 24 | 58.8 | 4267 | 19.2 | AZ830P2-2C-24DSSE |

Maximum Switching Capacity


* Add suffix "R" to indicate reversed polarity.

MECHANICAL DATA


Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010^{\prime \prime}$

