

# 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 for automatic wave soldering and cleaning
- UL, CUR file E43203



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C) Bifurcated crossbar contacts
<b>Ratings</b>	Resistive load: Max. switched power: 90 W or 125 VA Max. switched current: 3 A Max. switched voltage: 220 VDC or 250 VAC
<b>Rated Load UL</b>	3 A at 30 VDC resistive 2 A at 125 VAC resistive
<b>Material</b>	Gold plated silver against palladium silver. Gold plated palladium silver against palladium silver Gold plated silver against gold plated silver
<b>Resistance</b>	< 50 milliohms initially

### COIL

<b>Power At Pickup Voltage (typical)</b>	Standard coil: 56 mW Sensitive coil: 42 mW
<b>Max. Continuous Dissipation</b>	0.9 W at 20°C (68°F)
<b>Temperature</b>	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

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 2 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 2 A, 30 VDC or 1 A, 125 VAC 2 x 10 <sup>6</sup> at 1 A, 30 VDC or .5 A, 125 VAC
<b>Set Time (typical)</b>	3 ms at nominal coil voltage
<b>Reset Time (typical)</b>	3 ms at nominal coil voltage
<b>Bounce (typical)</b>	3 ms
<b>Dielectric Strength (at sea level)</b>	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
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 115°C (239°F)
<b>Vibration</b>	50 g at 10–500 Hz
<b>Shock</b>	50 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	5 grams

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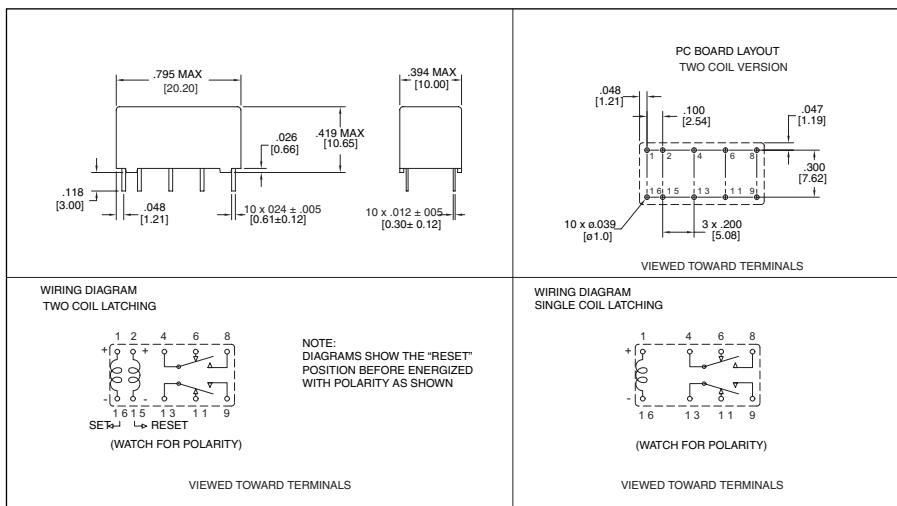
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## RELAY ORDERING DATA

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				
2.25	7.8	67.5	1.69	AZ832P1-2C-2.25DSE
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
6	12.7	180	4.5	AZ832P2-2C-6DE
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
6	14.7	240	4.5	AZ832P2-2C-6DSE
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. Add suffix "L" for gold plated silver against gold plated silver contact material.

## MECHANICAL DATA



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

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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.