

# 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
- UL, CUR file E43203



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C) Bifurcated crossbar contacts
<b>Ratings</b>	Resistive load: Max. switched power: 60 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.
<b>Rated Load UL</b>	2 A at 25 VDC resistive 1 A at 120 VAC resistive
<b>Material</b>	Gold plated silver against palladium silver. Gold plated palladium silver against palladium silver (Suffix "A")
<b>Resistance</b>	< 50 milliohms initially

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>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 105°C (221°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

### COIL

<b>Power</b> <b>At Pickup Voltage (typical)</b> <b>Max. Continuous Dissipation</b>	Standard coil: 128 mW Sensitive coil: 96 mW 0.9 W at 20°C (68°F)
<b>Temperature</b>	Max. 115°C (239°F)

### NOTES

<ol style="list-style-type: none"><li>1. All values at 20°C (68°F).</li><li>2. Relay may pull in with less than "Must Operate" value.</li><li>3. Relay has fixed coil polarity.</li><li>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.</li><li>5. Relay adjustment may be affected if undue pressure is exerted on relay case.</li><li>6. Specifications subject to change without notice.</li></ol>
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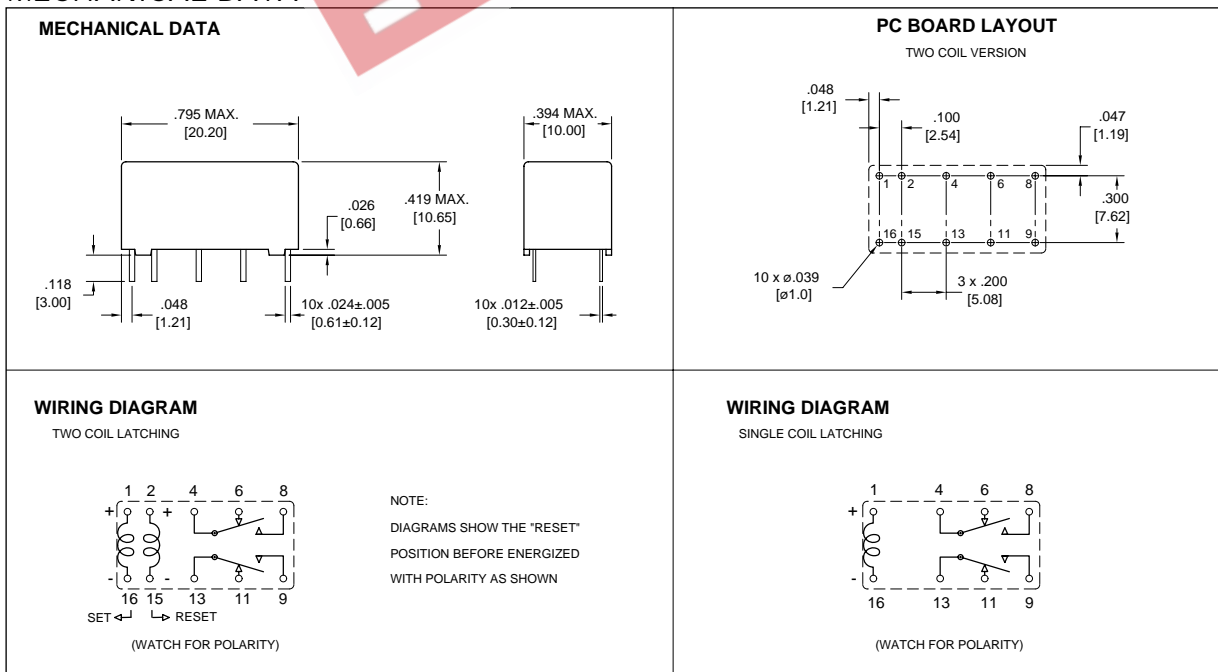
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## RELAY ORDERING DATA

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				
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
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
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.

## MECHANICAL DATA



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

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