# 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, 150 W, 250 VA
- Fits standard 16 pin IC socket
- Epoxy sealed for automatic wave soldering and cleaning
- UL file E43203; CSA file LR702225

#### **CONTACTS**

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts				
Ratings	Resistive load:  Max. switched power: 150 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				
Rated Load UL/CSA	the factory.  2 A at 25 VDC resistive 1 A at 120 VAC resistive				
Material	Gold plated silver against palladium silver. Gold plated palladium silver against palladium silver (Suffix "A")				
Resistance	< 50 milliohms initially				

#### COIL

Power	
At Pickup Voltage (typical)	Standard coil: 128 mW 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.
- 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.
  - Specifications subject to change without notice.



#### **GENERAL DATA**

Life Expectancy Mechanical Electrical	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			
Set Time (typical)	3 ms at nominal coil voltage			
Reset Time (typical)	3 ms at nominal coil voltage			
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			
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			

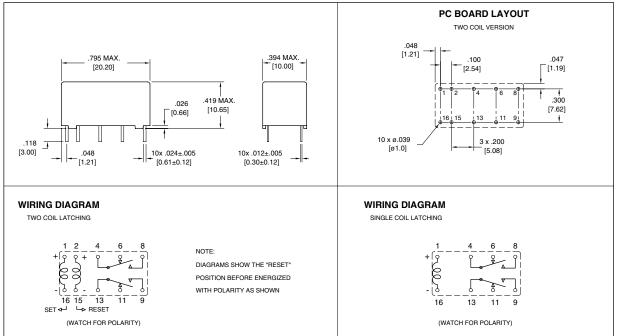
## **RELAY ORDERING DATA**

STANDARD SINGLE COIL							
COIL SPECIFICATIONS							
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Set Reset VDC	ORDER NUMBER*			
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						
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Set Reset VDC	ORDER NUMBER*		
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		

<sup>\*</sup>Add suffix "A" for gold plated palladium silver against palladium silver contact material. \*\*3 V coils not UL/CSA approved.

### **MECHANICAL DATA**



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"