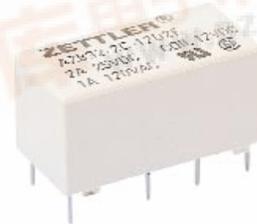


AZ832P

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

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts
Ratings	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.
Rated Load UL	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

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 2 x 10 ⁷ 1 x 10 ⁵ at 2 A, 30 VDC or 1 A, 125 VAC 2 x 10 ⁶ 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 105°C (221°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

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.
6. Specifications subject to change without notice.

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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

MECHANICAL DATA	PC BOARD LAYOUT TWO COIL VERSION
<p>WIRING DIAGRAM TWO COIL LATCHING</p> <p>NOTE: DIAGRAMS SHOW THE "RESET" POSITION BEFORE ENERGIZED WITH POLARITY AS SHOWN</p> <p>(WATCH FOR POLARITY)</p>	<p>WIRING DIAGRAM SINGLE COIL LATCHING</p> <p>(WATCH FOR POLARITY)</p>

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