AZ830P_

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 68.304 1000 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) Bifurcated crossbar contacts		
Ratings	Resistive load: Max. switched power: 60 W or 125 VA Max. switched current: 2 A Max. switched voltage: 150 VDC or 300 VAC		
Rated Load UL	2 A at 30 VDC 1 A at 120 VAC		
Material	Silver alloy, gold clad.		
Resistance	< 50 milliohms initially		

COIL (Polarized)

Power				
At Pickup Voltage (typical)	Standard coil: 176 mW Sensitive coil: 90 mW			
Max. Continuous Dissipation Temperature Rise	Ultra-Sensitive coil: 86 mW 1.2 W at 20°C (68°F) ambient 0.9 W at 40°C (104°F) ambient Standard: 38°C (68°F) at nominal coil voltage Sensitive: 21°C (38°F) at nominal coil voltage Ultra-Sensitive: 16°C (29°F) at nominal coil voltage			
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. 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" (5.0 mm) space be provided between adjacent relays.
- 6. Specifications subject to change without notice.



GENERAL DATA

Life Expectancy	Minimum operations		
Mechanical	1 x 10 ⁸		
Electrical	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)	3.5 ms at nominal coil voltage		
Capacitance	Contact to contact: 1.0 pF Contact set to contact: 1.0 pF Contact to coil: 2.0 pF		
Bounce (typical)	At 10 mA contact current 1.5 ms at operate N.O. side 2.5 ms at operate N.C. side		
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 Standard: -40°C (-40°F) to 85°C (185°F) Sensitive: -40°C (-40°F) to 95°C (203°F) Ultra-Sensitive: 40°C (-40°F) to 100°C (212°F) All: -40°C (-40°F) to 115°C (239°F)		
Vibration	0.062" DA at 10–55 Hz		
Shock	40 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		

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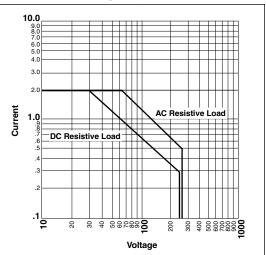
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RELAY ORDERING DATA

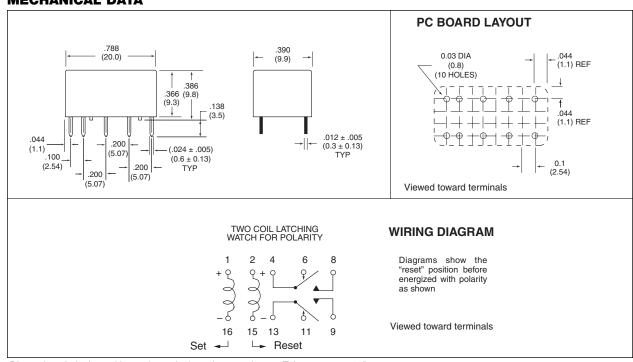
COIL SPECIFICATIONS							
STANDA	ARD COIL						
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Set Reset VDC	ORDER NUMBER*			
3	4.5	25	2.1	AZ830P2-2C-3DE			
5	7.5	69.4	3.5	AZ830P2-2C-5DE			
6	9.0	100	4.2	AZ830P2-2C-6DE			
9	13.5	225	6.3	AZ830P2-2C-9DE			
12	18.0	400	8.4	AZ830P2-2C-12DE			
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 "B" to indicate	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: ± .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.