## American Zettler AZ830P RELAY Datasheet

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#### **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

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# AZ830P

# POLARIZED DIP RELAY BISTABLE (LATCHING)

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- Low profile DIP package
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- Fits standard 16 pin IC socket
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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	Standard coil: 176 mW			
(typical)	Sensitive coil: 90 mW			
	Ultra-Sensitive coil: 86 mW			
Max. Continuous	1.2 W at 20°C (68°F) ambient			
Dissipation	0.9 W at 40°C (104°F) ambient			
Temperature Rise	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.
- 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 <sup>8</sup>		
Electrical	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)	3.5 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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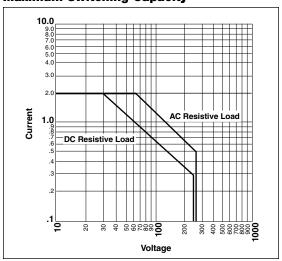
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# AZ830P

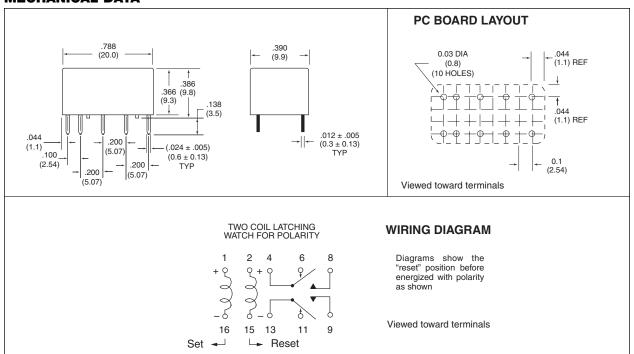
#### **RELAY ORDERING DATA**

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	4267	19.2	AZ830P2-2C-24DSSE		

#### **Maximum Switching Capacity**



#### **MECHANICAL DATA**



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



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<sup>\*</sup> Add suffix "R" to indicate reversed polarity.