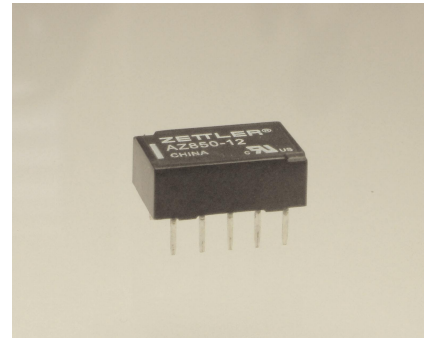


AZ850

MICROMINIATURE POLARIZED RELAY

FEATURES

- Microminiature size: Height: .197 inches (5 mm); Length: .551 inches (14 mm); Width: .354 inches (9 mm)
- High sensitivity, 79 mW pickup
- Monostable and bistable (latching) single coil and two coil versions available
- Meets FCC Part 68.302 1500 V lightning surge
- DIP terminal layout, fits 10 pin IC socket
- Epoxy sealed
- UL, CUR file E43203



CONTACTS

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts
Ratings	Resistive load: Max. switched power: 30 W or 62.5 VA Max. switched current: 1 A Max. switched voltage: 220* VDC or 250 VAC Max. carry current: 2 A *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	1 A at 30 VDC resistive 0.5 A at 125 VAC resistive
Material	Silver palladium; gold clad
Resistance	< 50 milliohms initially

COIL (Polarized)

Power At Pickup Voltage (typical)	Single side stable: 79–142 mW Bistable (latching) single coil: 56–84 mW Bistable (latching) two coil: 113–169 mW
Max. Continuous Dissipation	875 mW at 20°C (68°F) ambient
Temperature Rise	18°C (32°F) at nominal coil voltage
Temperature	Max. 105°C (221°F)

NOTES

1. All values at 20°C (68°F).
2. Relay has fixed coil polarity.
3. Relay may pull in with less than "Must Operate" value.
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 Mechanical Electrical	Minimum operations 1 x 10 ⁸ 2 x 10 ⁵ at 1 A, 30 VDC, resistive 1 x 10 ⁵ at 0.5 A, 125VAC, resistive
Operate Time (typical)	2 ms at nominal coil voltage
Release Time (typical)	1 ms at nominal coil voltage (with no coil suppression)
Set Time (bistable versions)	2 ms at nominal coil voltage (typical) Recommended coil pulse: 20 ms
Reset Time (bistable versions)	2 ms at nominal coil voltage (typical) Recommended coil pulse: 20 ms
Dropout	Greater than 10% of nominal coil voltage
Capacitance	Contact to contact: 0.4 pF Contact set to contact set: 0.2 pF Contact to coil: 0.9 pF
Dielectric Strength (at sea level)	1000 Vrms between contact sets 1000 Vrms across contacts 1250 Vrms contact to coil Meets FCC part 68.302 1500 V lightning surge
Insulation Resistance	1000 megohms min. at 25°C, 500 VDC, 50% RH
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)
Vibration	.130" (3.3 mm) DA at 10–55 Hz
Shock	50 g
Enclosure	LCP
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	250°C (482°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	1.5 grams
Packing unit in pcs	25 per plastic tube / 1000 per carton box

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2004-04-02
China

AZ850

RELAY ORDERING DATA

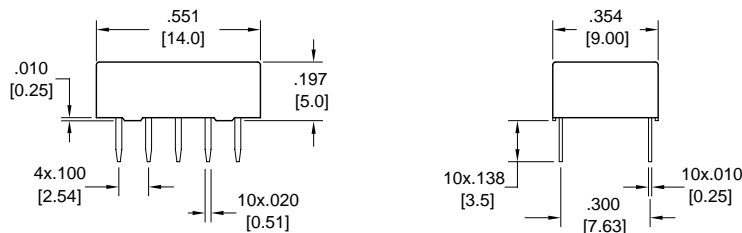
COIL SPECIFICATIONS				
Standard Coil: Monostable				ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	
3	2.1	7.5	64.3	AZ850-3
4.5	3.15	11.25	145.2	AZ850-4.5
5	3.5	12.5	178	AZ850-5
6	4.2	15.0	257	AZ850-6
9	6.3	22.5	579	AZ850-9
12	8.4	30.0	1,028	AZ850-12
24	16.8	48.0	2,880	AZ850-24
48	36.0	80.0	7,680	AZ850-48 *

* Not UL Approved

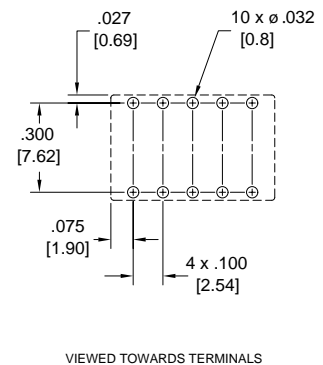
Bistable (Latching): 1 Coil				ORDER NUMBER
Nominal Coil VDC	Set-/Reset VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	
3	2.1	8.7	90	AZ850P1-3
4.5	3.15	13.0	203	AZ850P1-4.5
5	3.5	14.5	250	AZ850P1-5
6	4.2	17.4	360	AZ850P1-6
9	6.3	26.1	810	AZ850P1-9
12	8.4	34.8	1,440	AZ850P1-12
24	16.8	57.6	3,840	AZ850P1-24

Bistable (Latching): 2 Coils				ORDER NUMBER
Nominal Coil VDC	Set-/Reset VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	
3	2.1	6.0	45	AZ850P2-3
4.5	3.15	13.0	102	AZ850P2-4.5
5	3.5	10.0	125	AZ850P2-5
6	4.2	12.0	180	AZ850P2-6
9	6.3	18.0	405	AZ850P2-9
12	8.4	24.0	720	AZ850P2-12
24	16.8	40.0	1,920	AZ850P2-24

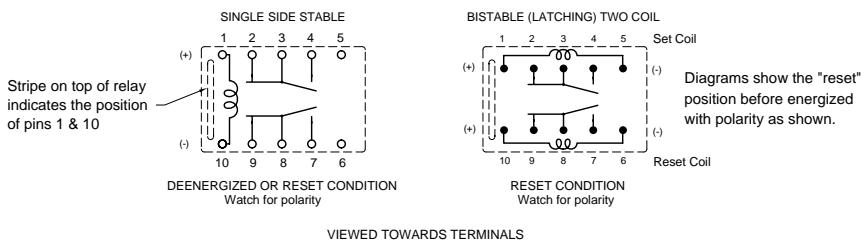
MECHANICAL DATA



PC BOARD LAYOUT



WIRING DIAGRAMS



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± 0.010 "

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