

American Zettler AZ850 RELAY Datasheet

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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 for automatic wave soldering and cleaning
UL, CUR file E43203

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AZ850

MICROMINIATURE POLARIZED RELAY

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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
Rated Load UL	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: 79–169 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)
Reset Time (bistable versions)	2 ms at nominal coil voltage (typical)
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 1000 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" 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



AMERICAN ZETTLER, INC.

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AZ850

RELAY ORDERING DATA

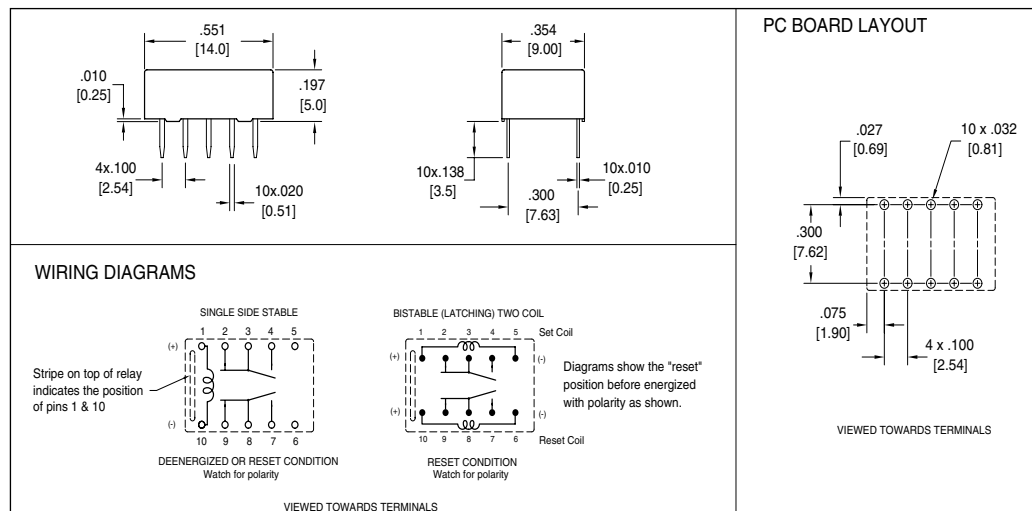
SINGLE SIDE STABLE					ORDER NUMBER
COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance ± 10%		
3	2.3	7.5	64.3		AZ850-3
5	3.8	12.5	178		AZ850-5
6	4.5	15.0	257		AZ850-6
9	6.8	22.5	579		AZ850-9
12	9.0	30.0	1,028		AZ850-12
24	18.0	48.0	2,880		AZ850-24
48	36.0	80.0	7,680		AZ850-48*

BISTABLE (LATCHING) SINGLE COIL					ORDER NUMBER
COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance ± 10%		
3	2.3	8.7	90		AZ850P1-3
5	3.8	14.5	250		AZ850P1-5
6	4.5	17.4	360		AZ850P1-6
9	6.8	26.1	810		AZ850P1-9
12	9.0	34.8	1440		AZ850P1-12
24	18.0	57.6	3840		AZ850P1-24

BISTABLE (LATCHING) TWO COIL					ORDER NUMBER
COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance		
			Coil I	Coil II	
3	2.3	6.0	45	45	AZ850P2-3
5	3.8	10.0	125	125	AZ850P2-5
6	4.5	12.0	180	180	AZ850P2-6
9	6.8	18.0	405	405	AZ850P2-9
12	9.0	24	720	720	AZ850P2-12
24	18.0	40	1,920	1,920	AZ850P2-24

*Not UL Approved

MECHANICAL DATA



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



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