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 for automatic wave soldering and cleaning
- 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
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

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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				

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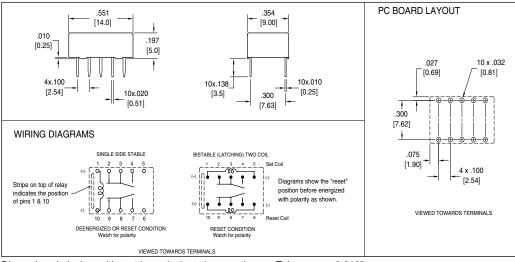
AZ850

RELAY ORDERING DATA

COIL SPECIFICATIONS					
Must Operate VDC	Max Continuous VDC	Coil Resistance ± 10%		ORDER NUMBER	
2.3	7.5	64.3		AZ850–3	
3.8	12.5	178		AZ850–5	
4.5	15.0	257		AZ850–6	
6.8	22.5	579		AZ850–9	
9.0	30.0	1,028	3	AZ850–12	
18.0	48.0	2,880)	AZ850–24	
36.0	80.0	7,680		AZ850-48*	
IG) SINGLE COIL				•	
COIL SPECIFICATIONS					
Must Operate VDC	Max Continuous VDC	Coil Resistance ± 10%		ORDER NUMBER	
2.3	8.7	90		AZ850P1-3	
3.8	14.5	250		AZ850P1-5	
4.5	17.4	360		AZ850P1-6	
6.8	26.1	810		AZ850P1-9	
9.0	34.8	1440		AZ850P1-12	
18.0	57.6	3840		AZ850P1-24	
IG) TWO COIL					
COIL SPECIFICATIONS					
Must Operate VDC	Max Continuous VDC	Coil Resistance Coil I Coil II		ORDER NUMBER	
2.3	6.0	45	45	AZ850P2-3	
3.8	10.0	125	125	AZ850P2-5	
4.5	12.0	180	180	AZ850P2-6	
6.8	18.0	405	405	AZ850P2-9	
9.0	24	720	720	AZ850P2-12	
18.0	40	1,920	1,920	AZ850P2-24	
	Must Operate VDC 2.3 3.8 4.5 6.8 9.0 18.0 36.0 IG) SINGLE COIL COIL SPEC Must Operate VDC 2.3 3.8 4.5 6.8 9.0 18.0 IG) TWO COIL COIL SPEC Must Operate VDC 2.3 3.8 4.5 6.8 9.0 18.0 IG) TWO COIL COIL SPEC Must Operate VDC 2.3 3.8 4.5 6.8 9.0	Must Operate VDC Max Continuous VDC 2.3 7.5 3.8 12.5 4.5 15.0 6.8 22.5 9.0 30.0 18.0 48.0 36.0 80.0 ISINGLE COIL Max Continuous VDC COIL SPECIFICATIONS Must Operate VDC Max Continuous VDC 2.3 8.7 3.8 14.5 4.5 17.4 6.8 26.1 9.0 34.8 18.0 57.6 IG) TWO COIL Max Continuous VDC 2.3 6.0 3.8 10.0 4.5 12.0 6.8 18.0 9.0 24	Must Operate VDC Max Continuous VDC Coil Res ± 1 2.3 7.5 64 3.8 12.5 176 4.5 15.0 257 6.8 22.5 575 9.0 30.0 1,026 18.0 48.0 2,880 36.0 80.0 7,680 IG) SINGLE COIL Coil SPECIFICATIONS Coil Res VDC VDC ± 1 2.3 8.7 90 3.8 14.5 256 4.5 17.4 360 6.8 26.1 810 9.0 34.8 1440 18.0 57.6 3840 9.0 34.8 1440 18.0 57.6 3840 9.0 34.8 1440 18.0 57.6 3840 16) TWO COIL Coil Res Coil Res VDC VDC Coil Res VDC VDC Coil I 2.3	Must Operate VDC Max Continuous VDC Coil Resistance ± 10% 2.3 7.5 64.3 3.8 12.5 178 4.5 15.0 257 6.8 22.5 579 9.0 30.0 1,028 18.0 48.0 2,880 36.0 80.0 7,680 IG) SINGLE COIL Coil Resistance ± 10% Coil Resistance ± 10% 2.3 8.7 90 3.8 14.5 250 4.5 17.4 360 6.8 26.1 810 9.0 34.8 1440 18.0 57.6 3840 46) TWO COIL Coil SPECIFICATIONS Must Operate VDC VDC Coil Resistance Coil I Coil II 2.3 6.0 45 3.8 10.0 125 4.5 12.0 180 3.8 10.0 125 3.8 10.0 125 3.8 10.0 125	

*Not UL Approved

MECHANICAL DATA



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



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