# 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 file E43203, CSA file 73363



## **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/CSA	1 A at 30 VDC 0.5 A at 125 VAC			
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.
- 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 aparations				
Mechanical Electrical	Minimum operations 1 x 10 <sup>8</sup> 2 x 10 <sup>5</sup> at 1 A, 30 VDC 1 x 10 <sup>5</sup> at 0.5 A, 125VAC				
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 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" 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				

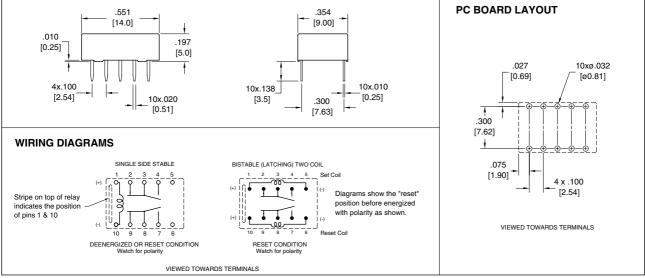
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## AZ850

### **RELAY ORDERING DATA**

SINGLE SIDE STAE	BLE				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%		Must Operate VDC	ORDER NUMBER
3	7.5	64.3		2.1	AZ850-3
4.5	11.25	145	5.2	3.15	AZ850-4.5
5	12.5	178		3.5	AZ850-5
6	15.0	257		4.2	AZ850-6
9	22.5	579	9	6.3	AZ850-9
12	30.0	1,028	3	8.4	AZ850-12
24	48.0	2,880		16.8	AZ850-24
BISTABLE (LATCH	ING) SINGLE COIL				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%		Must Operate VDC	ORDER NUMBER
3	8.7	90		2.1	AZ850P1-3
4.5	13.0	203		3.2	AZ850P1-4.5
5	14.5	250		3.5	AZ850P1-5
6	17.4	360		4.2	AZ850P1-6
9	26.1	810		6.3	AZ850P1-9
12	34.8	1440		8.4	AZ850P1-12
24	57.6	3840		16.8	AZ850P1-24
BISTABLE (LATCH	ING) TWO COIL				
Nominal Coil	Max. Continuous	Coil Resistance ± 10%		Must Operate	ORDER NUMBER
VDC	VDC	Coil I	Coil II	VDC	
3	6.0	45	45	2.1	AZ850P2-3
4.5	13.0	102	102	3.2	AZ850P2-4.5
5	10.0	125	125	3.5	AZ850P2-5
6	12.0	180	180	4.2	AZ850P2-6
9	18.0	405	405	6.3	AZ850P2-9
12	24	720	720	8.4	AZ850P2-12
24	40	1,920	1,920	16.8	AZ850P2-24

## MECHANICAL DATA



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

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