AZ847 ___

MICROMINIATURE POLARIZED RELAY

FEATURES

- Microminiature size: Height: .217 inches (5.5 mm); Length: .551 inches (14 mm); Width: .354 inches (9 mm)
- High sensitivity, 79 mW pickup
- Monostable and bistable (latching) 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 73363

CONTACTS

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts	
Ratings	Resistive load: Max. switched power: 60 W or 62.5 VA Max. switched current: 2 A Max. switched voltage: 220 VDC or 250 VAC Max. carry current: 2 A	
Rated Load UL/CSA	0.5 A at 125 VAC res. 2.0 A at 30 VDC res. 0.3 A at 110 VDC res.	
Material	Silver palladium; gold clad	
Resistance	< 50 milliohms initially	

COIL (Polarized)

Power At Pickup Voltage (typical)	Single side stable: 70–150 mW Bistable (latc <mark>h</mark> ing) two coil: 100–150 mW			
Max. Continuous Dissipation	700 mW at 20°C (68°F) ambient 530 mW at 40°C (104°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 5 x 10 ⁵ at 1 A 30 VDC, Res. 2 x 10 ⁵ at 0.5 A 125 VAC, Res.				
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: 0.5 pF Contact set to contact set: 1.5 pF Contact to coil: 1.0 pF				
Dielectric Strength (at sea level)	1000 Vrms between contact sets 1000 Vrms across contacts 1,250 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 85°C (185°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.	260°C (500°F)				
Max. Solder Time	5 seconds				
Max. Solvent Temp.	80°C (176°F)				
Max. Immersion Time	30 seconds				
Weight	1.2 grams				

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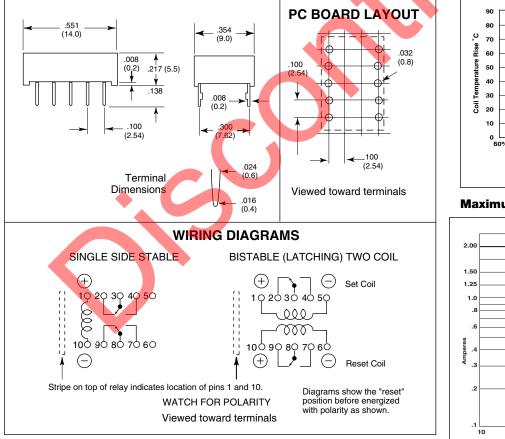
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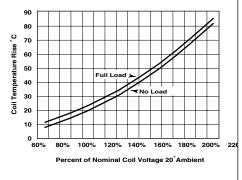
RELAY ORDERING DATA

SINGLE SIDE STAE	BLE				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%		Must Operate VDC	ORDER NUMBER
3	6.7	64	.3	2.3	AZ847–3
5	11.2	178	3	3.8	AZ847–5
6	13.4	257		4.5	AZ847-6
9	20.1	579		6.8	AZ847–9
12	26.8	1,028		9.0	AZ847-12
24	44.9	2,880		18.0	AZ8 <mark>47</mark> –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	5.6	45	45	2.3	AZ847P2-3
5	9.4	125	125	3.8	AZ847P2-5
6	11.2	180	180	4.5	AZ847P2–6
9	16.8	405	405	6.8	AZ847P2-9
12	22.4	720	720	9.0	AZ847P2-12
24	36.7	1,920	1,920	18.0	AZ847P2–24

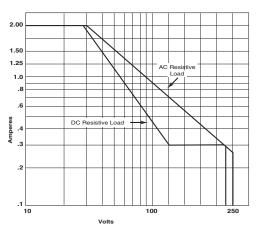
MECHANICAL DATA



Coil Temperature Rise



Maximum Switching Capacity



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

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75 COLUMBIA · ALISO VIEJO, CA 92656 · PHONE: (949) 831-5000 · FAX: (949) 831-8642 · E-MAIL: SALES @ AZETTLER.COM 5/24/04W This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.