American Zettler AZ852 RELAY Datasheet

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FEATURES

 Conforms to IEC60950/UL1950/EN60950 spacing and high breakdown voltage

Clearance: 1.0 mm (between coil and contacts)
Creepage: 1.6 mm (between coil and contacts)

Basic Insulation: 150 V Working Voltage, Pollution Degree 2
• Monostable and bistable (latching) coil versions available

- High dielectric and surge voltage:
- 2.5 KV surge (per Bellcore TA-NWT-001089)
- 1.5 KV surge (per FCC Part 68)
- 1,000 Vrms, open contacts
- Low power consumption: 64 mW pickup
- · Stable contact resistance for low level signal switching
- Epoxy sealed for automatic wave soldering and cleaning
- UL file E43203; CSA file 212940
- All plastics meet UL94 V–0, 30 min. oxygen index

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AZ852

MICROMINIATURE POLARIZED RELAY

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CONTACTS

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts		
Ratings	Resistive load: Max. switched power: 60 W or 62.5 VA Max. switched current: 2.0 A Max. switched voltage: 220 VDC or 250 VAC		
Rated Load UL/CSA	0.5 A at 125 VAC 2.0 A at 30 VDC 0.3 A at 110 VDC		
Material	Silver alloy; gold clad		
Resistance	< 75 milliohms initially at 6 V, 1 A		

COIL (Polarized)

Power At Pickup Voltage (typical)	64 mW - Sensitive coils 79 mW (3–12 VDC) - Standard coils 130 mW (24 VDC) - Standard coils				
Max. Continuous Dissipation	1.0 W at 20°C (68°F) 0.78 W at 40°C (104°F)				
Temperature Rise	At nominal coil voltage 18°C (32°F) (3–12 VDC) 25°C (45°F) (24 VDC)				
Temperature	Max. 115°C (239°F)				

NOTES

- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Relay has fixed coil polarity.
- 4. Specifications subject to change without notice.



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁸ at 3Hz 1 x 10 ⁵ at 0.5 A, 125 VAC, Res. 2 x 10 ⁵ at 1.0 A, 30 VDC, Res.				
Operate Time (typical)	3 ms at nominal coil voltage				
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)				
Bounce (typical)	At 10 mA contact current 1 ms at operate or release				
Capacitance	< 1 pF at 10 KHz—open contacts < 1 pF at 10 KHz—adjacent contact sets				
Dielectric Strength (at sea level)	See table				
Dropout	Greater than 10% of nominal coil voltage				
Insulation Resistance	109 ohms 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 115°C (239°F)				
Vibration	Operational, 20 g, 10–55 Hz Non-destructive, 30 g, 10–55 Hz				
Shock	Operational, 50 g min., 11 ms Non-destructive, 100 g min., 11 ms				
Max. Solder Temp. Temp./Time	350°C (662°F) for 3 seconds 260°C (500°F) for 10 seconds				
Max. Solvent Temp.	80°C (176°F)				
Max. Immersion Time	30 seconds				
Weight	0.8 grams				
Enclosure	P.B.T. polyester				
Terminals	Tinned copper alloy, P.C.				



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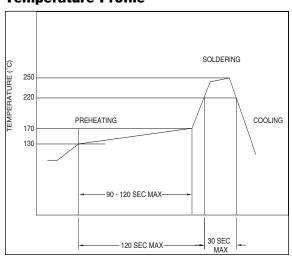
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RELAY ORDERING DATA

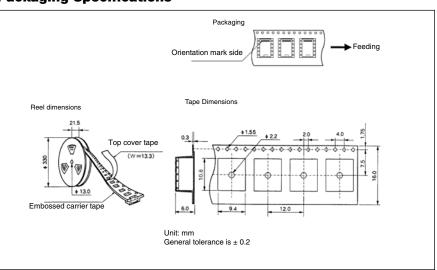
NON-LATCHING VERSION - STANDARD Nominal Coil Max. Continuous Coil Resistance Must Operate			OF	ORDER NUMBER		
VDC	VDC	± 10%	VDC	THT	SMT*	SMTss*
1.5	2.25	16.1	1.13	AZ852-1.5	AZ852S-1.5	AZ852S1-1.5
3	4.5	64.3	2.25	AZ852-3	AZ852S-3	AZ852S1-3
4.5	6.75	145	3.38	AZ852-4.5	AZ852S-4.5	AZ852S1-4.5
6	9	257	4.5	AZ852-6	AZ852S-6	AZ852S1-6
9	13.5	579	6.75	AZ852-9	AZ852S-9	AZ852S1-9
12	18	1028	9.00	AZ852-12	AZ852S-12	AZ852S1-12
24	36	2504	18.00	AZ852-24	AZ852S-24	AZ852S1-24
NON-LATCHING V	ERSION - SENSITIVE					
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Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ± 10%	Must Operate VDC	THT	RDER NUMBER SMT*	SMTss*
3	4.5	90	2.25	AZ852–3S	AZ852S-3S	AZ852S1-3S
4.5	6.75	203	3.38	AZ852-4.5S	AZ852S-4.5S	AZ852S1-4.5
9	13.5	810	6.75	AZ852-9S	AZ852S-9S	AZ852S1-9S
12	18	1440	9.00	AZ852-12S	AZ852S-12S	AZ852S1-12
LATCHING VERSION	ON					
Nominal Coil Max. Continuous Coil Resistance Must Operate			ORDER NUMBER			
VDC	VDC	± 10%	VDC	THT	SMT*	SMTss*
1.5	2.25	22.5	1.13	AZ852P-1.5	AZ852PS-1.5	AZ852PS1-1
3	4.5	90	2.25	AZ852P-3	AZ852PS-3	AZ852PS1-3
4.5	6.75	203	3.38	AZ852P-4.5	AZ852PS-4.5	AZ852PS1-4
6	9	360	4.50	AZ852P-6	AZ852PS-6	AZ852PS1-6
9	13.5	810	6.75	AZ852P-9	AZ852PS-9	AZ852PS1-9
12	18	1440	9.00	AZ852P-12	AZ852PS-12	AZ852PS1-1
24	36	4800	18.00	AZ852P-24	AZ852PS-24	AZ852PS1-2

^{*}Tape and reel available (1K pcs/reel minimum)

Temperature Profile



Packaging Specifications





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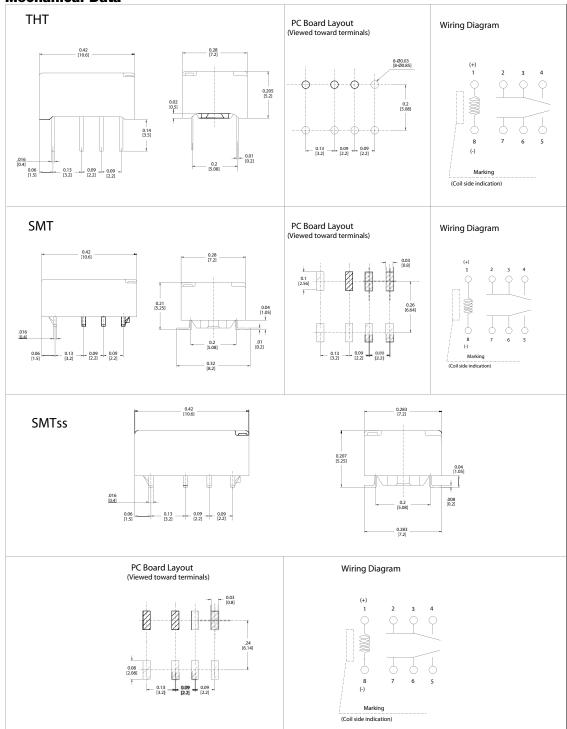
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INITIAL DIELECTRIC ST	ım)	SURGE			
	VRMS, 1 min.	Peak (V)	Rise Time (µS)	Decay Time* (9µS) (1/2 peak)	
Between open contacts	1,000	1,500	10	160	
Between contact sets	1,000	1,500	2	160	
Between coil and contacts	1,500	2,500	2	10	

^{*} Decay time measured from beginning of surge.

Mechanical Data





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