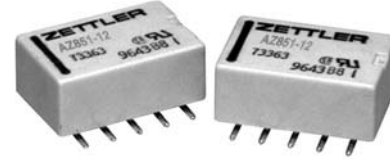


# AZ851

## MICROMINIATURE POLARIZED RELAY

### FEATURES

- Microminiature size: Height: .244 inches (6.2 mm); Length: .559 inches (14.2 mm); Width: .366 inches (9.3 mm)
- High sensitivity, 79 mW pickup
- Meets FCC Part 68.302 1500 V lightning surge
- Surface mount type with "L" shaped terminals
- Monostable
- Minimum switching load 10 mV, 10  $\mu$ A
- Epoxy sealed
- UL, CUR file E43203



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C) Bifurcated crossbar contacts
<b>Ratings</b>	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  * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL, CUR</b>	1 A at 30 VDC resistive 0.5 A at 125 VAC resistive
<b>Material</b>	Silver palladium, gold clad
<b>Resistance</b>	< 50 milliohms initially

### COIL (Polarized)

<b>Power At Pickup Voltage (typical)</b>	79–169 mW
<b>Max. Continuous Dissipation</b>	875 mW at 20°C (68°F) ambient
<b>Temperature Rise</b>	18°C (32°F) at nominal coil voltage
<b>Temperature</b>	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.
7. Ultrasonic cleaning is not recommended.

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>8</sup> 2 x 10 <sup>5</sup> at 1 A, 30 VDC resistive 1 x 10 <sup>5</sup> at 0.5 A, 125 VAC resistive
<b>Operate Time (typical)</b>	2 ms at nominal coil voltage
<b>Release Time (typical)</b>	1 ms at nominal coil voltage (with no coil suppression)
<b>Set Time (bistable versions)</b>	2 ms at nominal coil voltage (typical) Recommended coil pulse: 20 ms
<b>Reset Time (bistable versions)</b>	2 ms at nominal coil voltage (typical) Recommended coil pulse: 20 ms
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Capacitance</b>	Contact to contact: 0.4 pF Contact set to contact set: 0.2 pF Contact to coil: 0.9 pF
<b>Dielectric Strength (at sea level)</b>	1000 Vrms between contact sets 1000 Vrms across contacts 1000 Vrms contact to coil Meets FCC part 68.302 1500 V lightning surge
<b>Insulation Resistance</b>	1000 megohms min. at 25°C, 500 VDC, 50% RH
<b>Ambient Temperature Operating</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F)
<b>Vibration</b>	.130" (3.3 mm) DA at 10–55 Hz
<b>Shock</b>	50 g
<b>Enclosure</b>	LCP
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	1.5 grams
<b>Packing unit in pcs (TR Tape &amp; Reel)</b>	25 per plastic tube / 1000 per carton box 500 per reel

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This product specification to be used only together with the application notes  
which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

2014-08-06

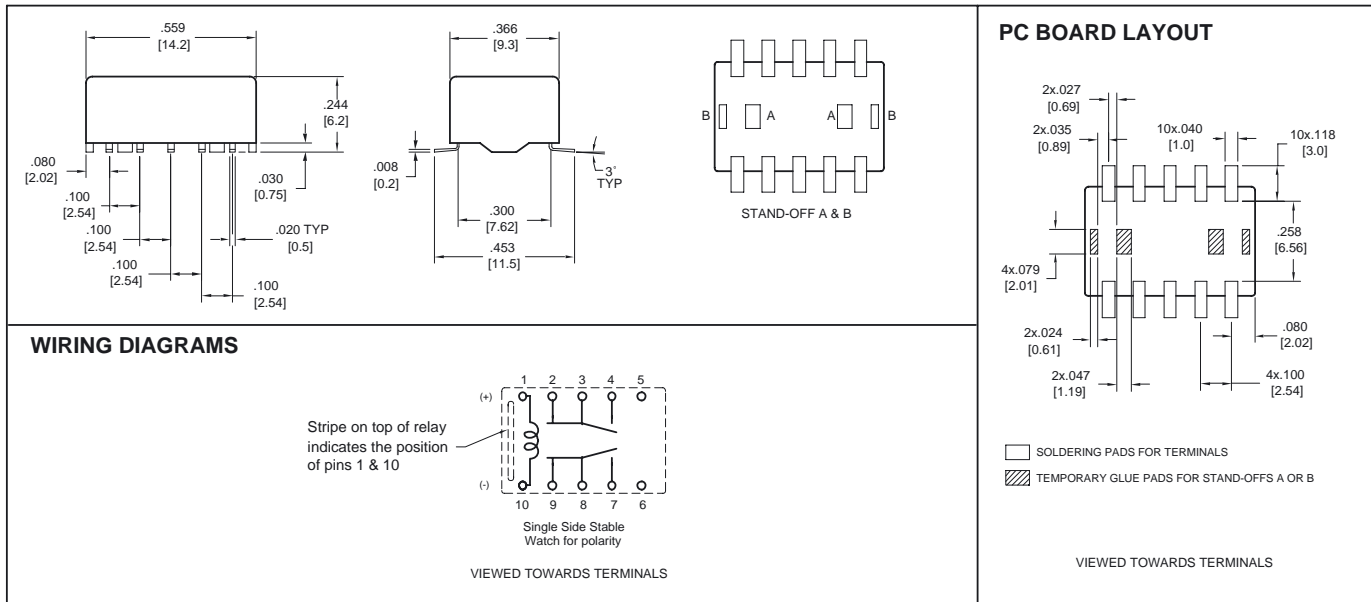
# AZ851

## RELAY ORDERING DATA

COIL SPECIFICATIONS				
Standard Coil: Monostable				ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	
3	2.25	7.5	64.3	AZ851-3
5	3.75	12.5	178	AZ851-5
6	4.5	15.0	257	AZ851-6
9	6.75	22.5	579	AZ851-9
12	9.0	30.0	1,028	AZ851-12
24	18.0	48.0	2,880	AZ851-24
48	36.0	80.0	7,680	AZ851-48 *

\* Not UL Approved

## MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010''$

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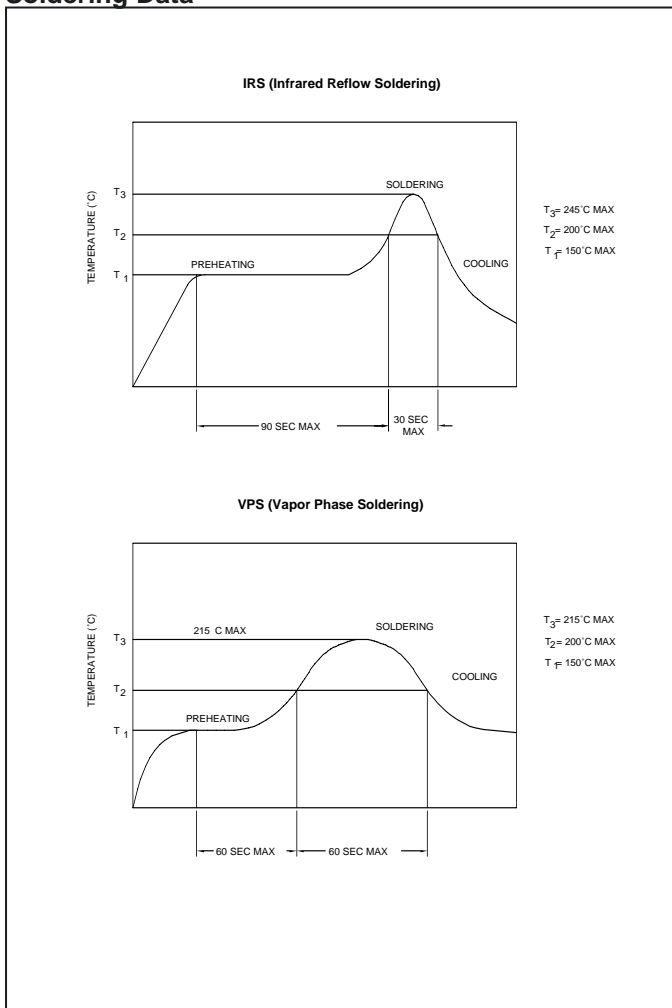
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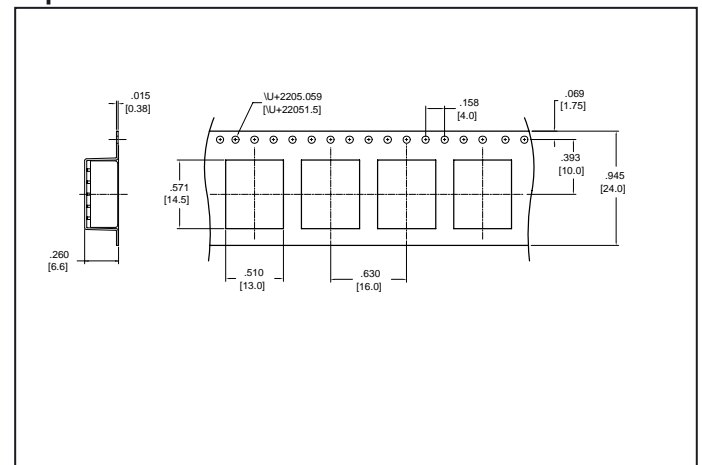
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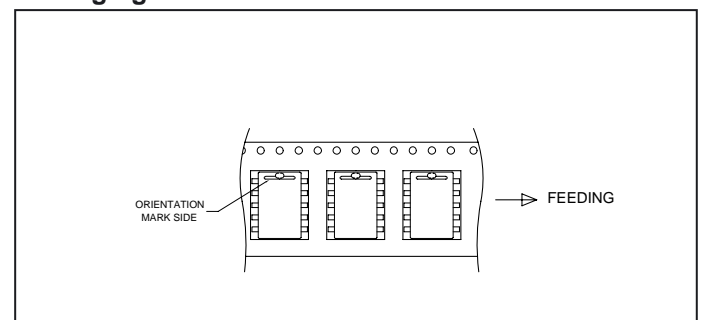
## Soldering Data



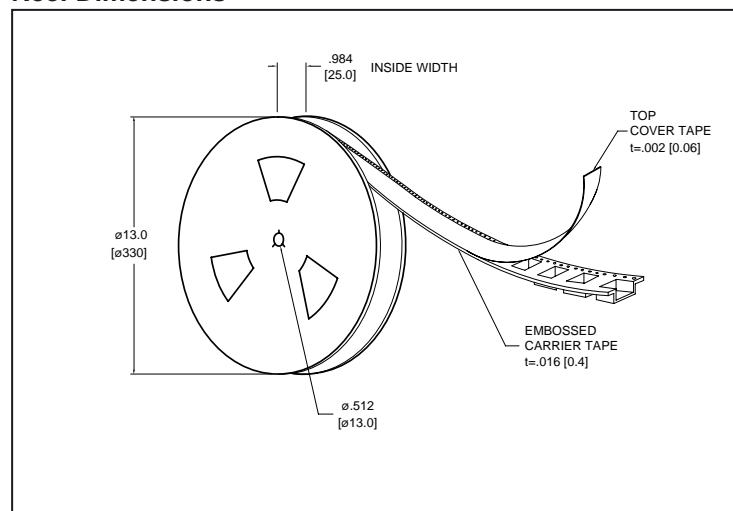
## Tape Dimensions



## Packaging



## Reel Dimensions



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