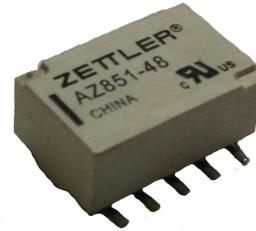


# AZ851

## MICROMINIATURE POLARIZED RELAY

### FEATURES

- Microminiature size: Height: 0.244 inches (6.2mm); Length: 0.559 inches (14.2mm); Width: 0.366 inches (9.3mm)
- High sensitivity, 79mW pickup
- Meets FCC Part 68.302 1500V lightning surge
- Surface mount type with “L” shaped terminals
- Epoxy sealed for automatic wave soldering and cleaning
- UL, CUR file E43203



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C) Bifurcated crossbar contacts
<b>Ratings</b>	Resistive load: Max. switched power: 60W or 62.5VA Max. switched current: 1A Max. switched voltage: 220VDC or 250VAC Max. carry current: 2A
<b>Rated Load UL, CUR</b>	2A at 30VDC, gen 1A at 30VDC resistive 0.5A at 125VAC resistive
<b>Material</b>	Silver palladium, gold clad
<b>Resistance</b>	< 50 milliohms initially

### COIL (Polarized)

<b>Power At Pickup Voltage (typical)</b>	79–142mW
<b>Max. Continuous Dissipation</b>	875mW 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 0.197" (5.0mm) space be provided between adjacent relays.
6. Specifications subject to change without notice.

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>8</sup> 2 x 10 <sup>5</sup> at 1A, 30VDC resistive 1 x 10 <sup>5</sup> at 0.5A, 125VAC resistive
<b>Operate Time (typical)</b>	2ms at nominal coil voltage
<b>Release Time (typical)</b>	1ms at nominal coil voltage (with no coil suppression)
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Capacitance</b>	Contact to contact: 0.4pF Contact set to contact set: 0.2pF Contact to coil: 0.9pF
<b>Dielectric Strength (at sea level)</b>	1000Vrms between contact sets 1000Vrms across contacts 1000Vrms contact to coil Meets FCC part 68.302 1500V lightning surge
<b>Insulation Resistance</b>	1000 megohms min. at 25°C, 500VDC, 50% RH
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.130" 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>	Approx. 1.5 grams

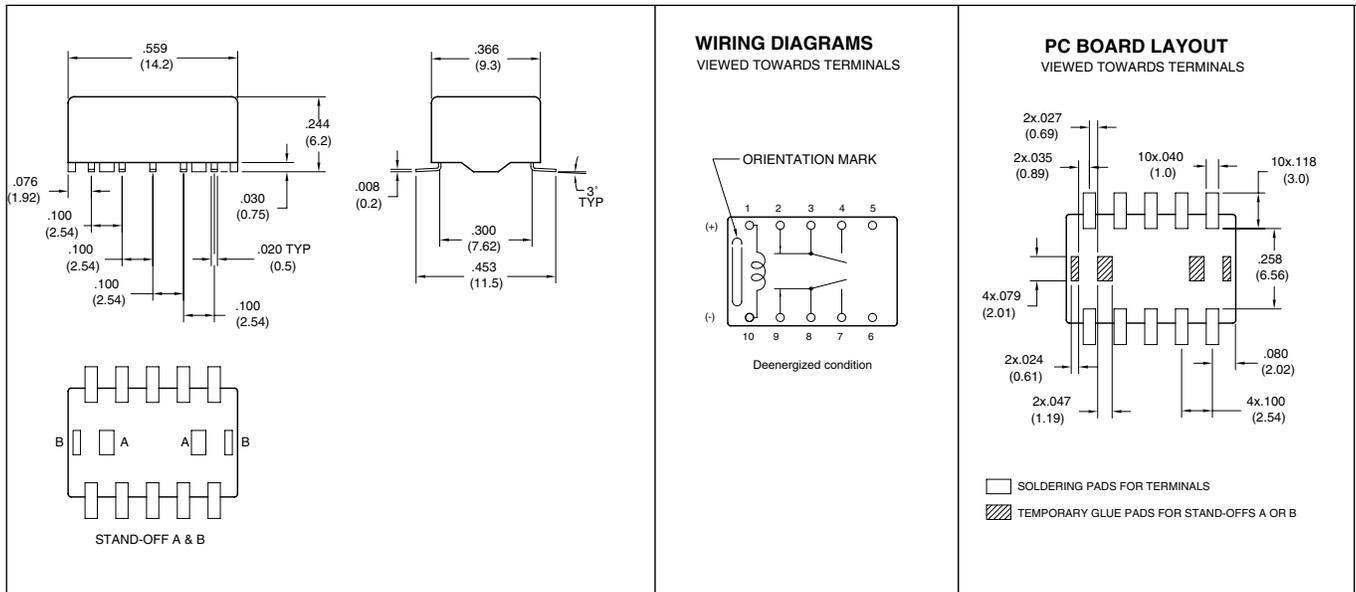
# AZ851

## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance $\pm 10\%$	
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 [1]

[1] Not UL approved \*Add suffix "TR" for tape & reel package (500 relays per reel)

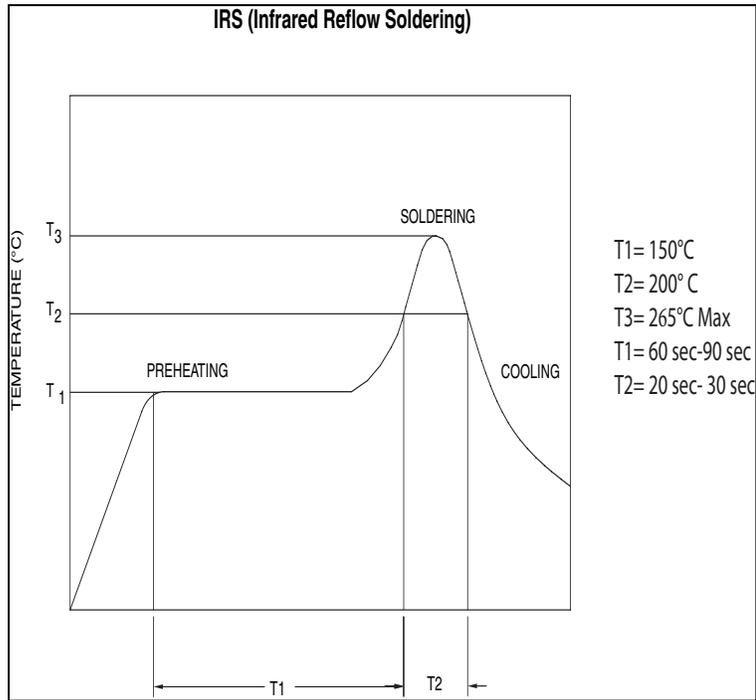
## MECHANICAL DATA



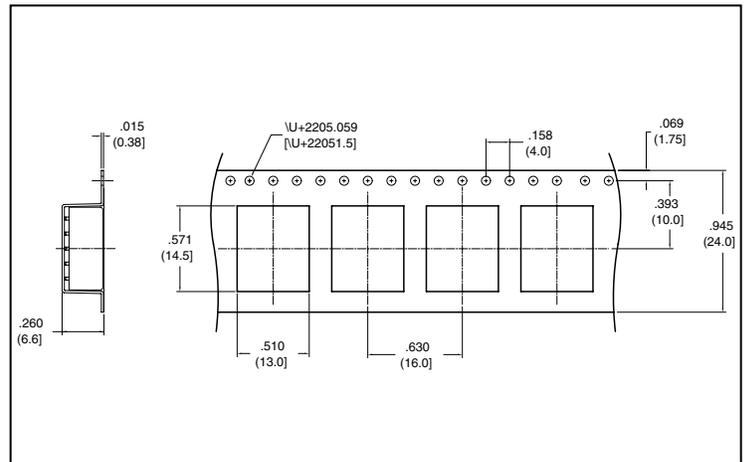
Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010$ "

# AZ851

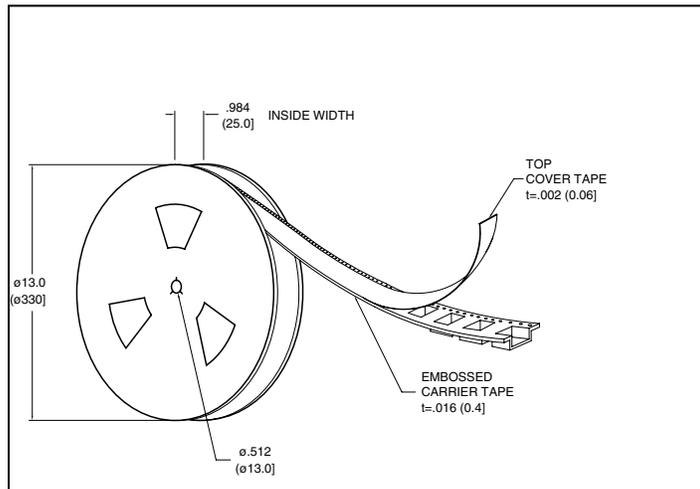
## Soldering Data



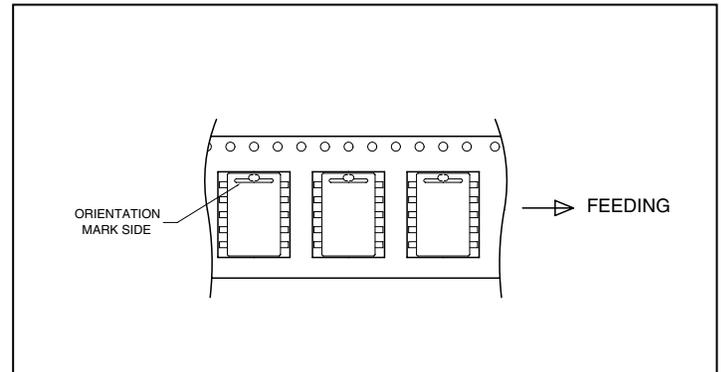
## Tape Dimensions



## Reel Dimensions



## Packaging



**AMERICAN ZETTLER, INC.**

2/01/16

PHONE: (949) 831-5000

[www.azettler.com](http://www.azettler.com)

E-MAIL: SALES@AZETTLER.COM

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.