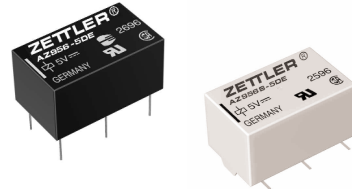


# AZ956P

## MICROMINIATURE POLARIZED BISTABLE (LATCHING) RELAY

### FEATURES

- Microminiature size: up to 50% less board area than previous generation telecom relays
- Meets FCC Part 68.302 1500 V lightning surge
- High dielectric and surge voltage:
- Low power consumption: 36 mW pickup
- Stable contact resistance for low level signal switching
- Epoxy sealed
- UL, CUR file E43203
- All plastics meet UL94 V-O, 30 min. oxygen index



### CONTACTS

<b>Arrangement</b>	SPDT (1 Form C) Bifurcated crossbar contacts
<b>Ratings</b>	Resistive load: Max. switched power: 30 W or 60 VA Max. switched current: 1.0 A Max. switched voltage: 150 VDC or 125 VAC
<b>Rated Load UL, CUR</b>	0.5 A at 120 VAC 1.0 A at 30 VDC
<b>Material</b>	Palladium nickel with gold-rhodium overlay
<b>Resistance</b>	< 50 milliohms initially (6 V, 10 mA method)

### COIL (Polarized)

<b>Power At Pickup Voltage (typical)</b>	36 mW
<b>Max. Continuous Dissipation</b>	0.5 W at 20°C (68°F)
<b>Temperature Rise</b>	At nominal coil voltage 8°C (15°F)
<b>Temperature</b>	Max. 105°C (221°F)

### NOTES

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

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>9</sup> 2.5 x 10 <sup>5</sup> at 0.4 A, 125 VAC, resistive 3 x 10 <sup>6</sup> at 1.0 A, 24 VDC, resistive
<b>Set Time (typical)</b>	1 ms at nominal coil voltage
<b>Reset Time (typical)</b>	0.9 ms at nominal coil voltage
<b>Bounce (typical)</b>	At 10 mA contact current 1 ms at set or reset
<b>Dielectric Strength (at sea level)</b>	1500 Vrms contact to coil 500 Vrms between open contacts
<b>Insulation Resistance</b>	10 <sup>9</sup> ohms min. at 25°C, 500 VDC, 50% RH
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	Operational, 40 g, 10–200 Hz
<b>Shock</b>	Operational, 50 g min., 11 ms Non-destructive, 150 g min., 11 ms
<b>Max. Solder Temp. Temp./Time</b>	Vapor phase: 215°C, 40 Sec. Infrared: 215°C, 40 Sec. Double wave: 260°C, 10 Sec.
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	1.8 grams
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.

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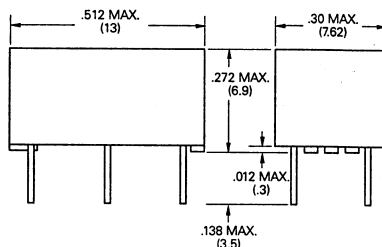
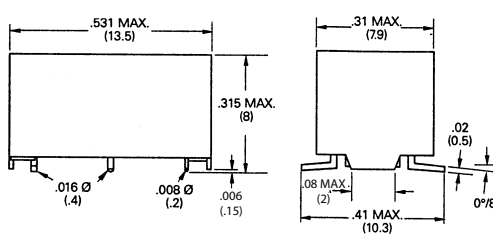
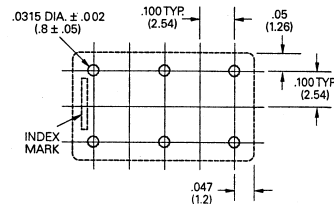
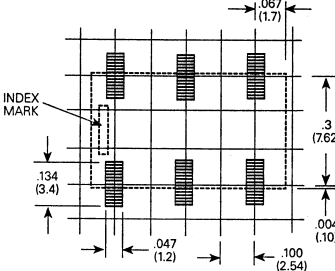
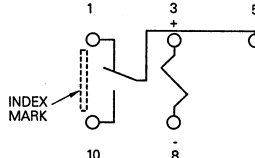
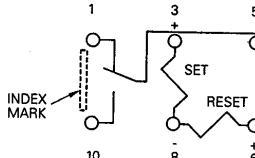
## RELAY ORDERING DATA

STANDARD SINGLE COIL				Order Number	
Nominal Coil VDC	Max. Operating VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	THT Through Hole	SMT
1.5	6	61	1.13	AZ956P1-1.5DE	AZ956P1S-1.5DE
3	13	300	2.25	AZ956P1-3DE	AZ956P1S-3DE
5	20	740	3.75	AZ956P1-5DE	AZ956P1S-5DE
9	35	2,160	6.75	AZ956P1-9DE	AZ956P1S-9DE
12	50	4,500	9.00	AZ956P1-12DE	AZ956P1S-12DE
15	50	4,500	11.30	AZ956P1-15DE	AZ956P1S-15DE
24	50	4,500	18.00	AZ956P1-24DE	AZ956P1S-24DE

STANDARD DUAL COIL				Order Number	
Nominal Coil VDC	Max. Operating VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	THT Through Hole	SMT
1.5	4.25	32	1.13	AZ956P2-1.5DE	AZ956P2S-1.5DE
3	8.55	130	2.25	AZ956P2-3DE	AZ956P2S-3DE
5	14.75	390	3.75	AZ956P2-5DE	AZ956P2S-5DE
9	25.60	1,200	6.75	AZ956P2-9DE	AZ956P2S-9DE
12	29.00	1,500	9.00	AZ956P2-12DE	AZ956P2S-12DE
15	29.00	1,500	11.30	AZ956P2-15DE	AZ956P2S-15DE

## MECHANICAL DATA

<p><b>THT</b></p> 	<p><b>SMT</b></p> 
<p><b>PC BOARD LAYOUT</b> Viewed toward terminals</p> 	<p><b>PC BOARD LAYOUT</b> Viewed toward terminals</p> 
<p><b>Wiring Diagram</b> Viewed toward terminals</p> <p>Single Coil Latching Shown in reset Position</p> 	<p>Dual Coil Latching Shown in reset position</p> 

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

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