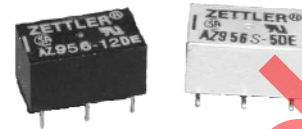


# AZ956P

## 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 for automatic wave soldering and cleaning
- UL, CUR file E43203
- All plastics meet UL94 V-0, 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</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</b> <b>Mechanical</b> <b>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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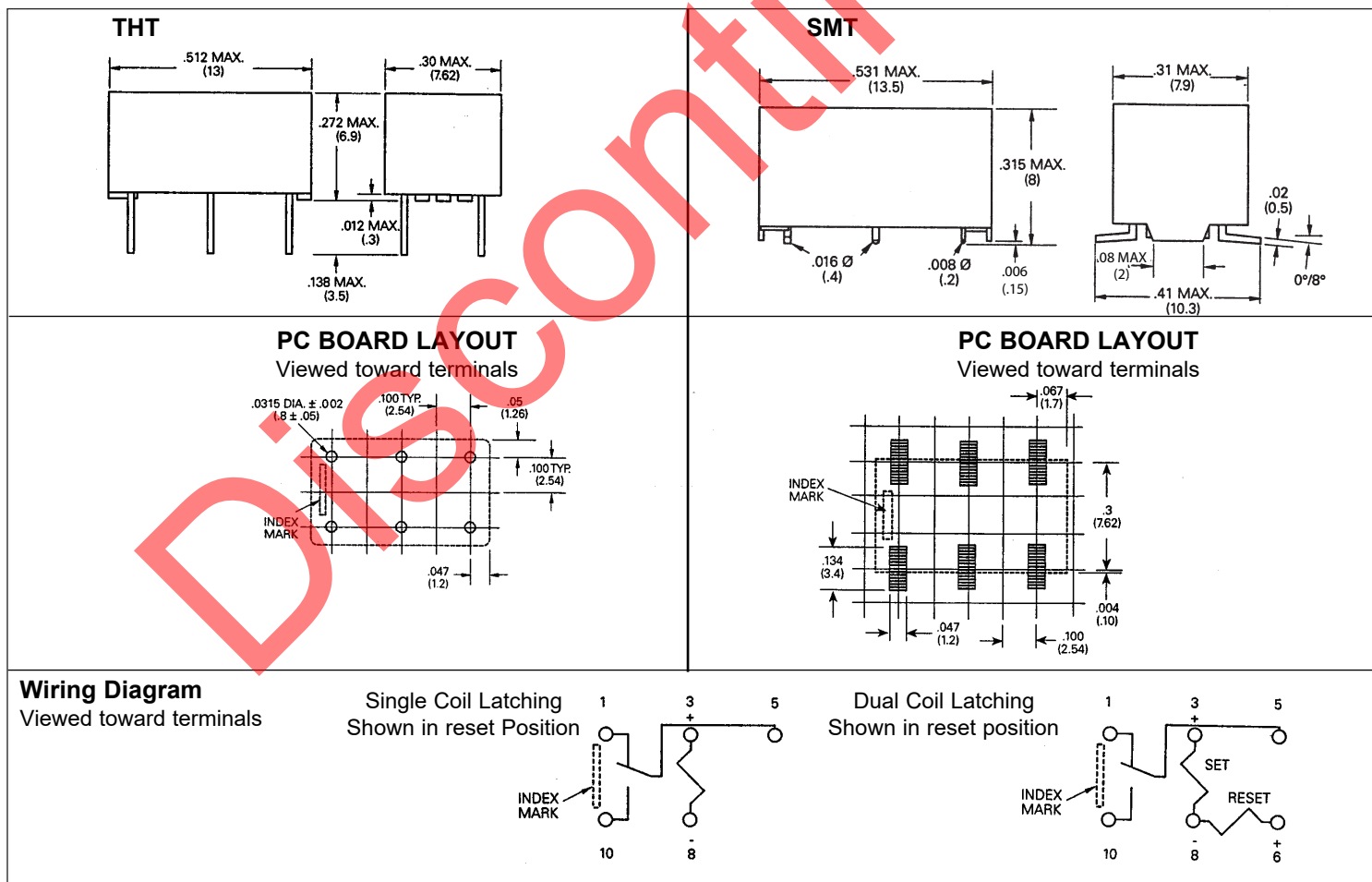
## RELAY ORDERING DATA

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	2160	6.75	AZ956P1-9DE	AZ956P1S-9DE
12	50	4500	9.00	AZ956P1-12DE	AZ956P1S-12DE
15	50	4500	11.3	AZ956P1-15DE	AZ956P1S-15DE
24	50	4500	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	25.6	1200	6.75	AZ956P2-9DE	AZ956P2S-9DE
12	29	1500	9.00	AZ956P2-12DE	AZ956P2S-12DE
15	29	1500	11.3	AZ956P2-15DE	AZ956P2S-15DE

## MECHANICAL DATA



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

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7/24/02

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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.