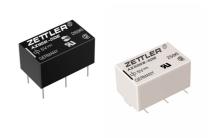
## MICROMINIATURE POLARIZED BISTABLE (LATCHING) RELAY

#### **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**

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

#### COIL (Polarized)

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

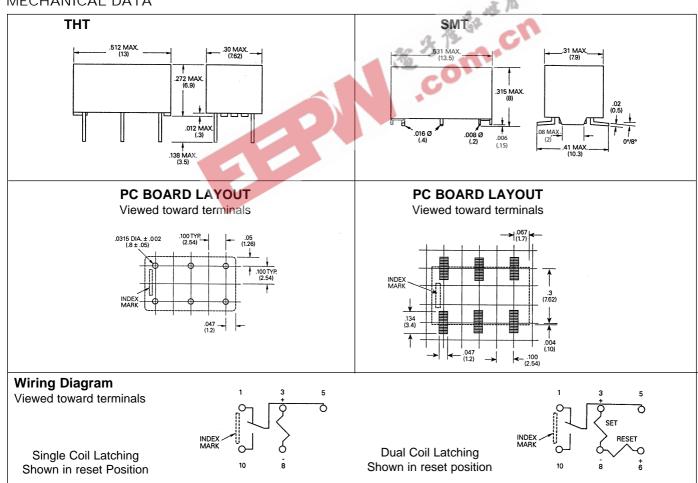
Life Expectancy Mechanical Electrical  Set Time (typical)	Minimum operations 1 x 109 2.5 x 105 at 0.4 A, 125 VAC, resistive 3 x 106 at 1.0 A, 24 VDC, resistive 1 ms at nominal coil voltage			
Reset Time (typical)	0.9 ms at nominal coil voltage			
Bounce (typical)	At 10 mA contact current 1 ms at set or reset			
Dielectric Strength (at sea level)	1500 Vrms contact to coil 500 Vrms between open contacts			
Insulation Resistance	10 <sup>9</sup> ohms min. at 25°C, 500 VDC, 50% RH			
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)			
Vibration	Operational, 40 g, 10-200 Hz			
Shock	Operational, 50 g min., 11 ms Non-destructive, 150 g min., 11 ms			
Max. Solder Temp. Temp./Time	Vapor phase: 215°C, 40 Sec. Infrared: 215°C, 40 Sec. Double wave: 260°C, 10 Sec.			
Max. Solvent Temp.	80°C (176°F)			
Max. Immersion Time	30 seconds			
Weight	1.8 grams			
Enclosure	P.B.T. polyester			
Terminals	Tinned copper alloy, P.C.			

# AZ956P\_\_

#### **RELAY ORDERING DATA**

STANDARD SINGLE COIL				Order Number	
Nominal Coil VDC	Max. Operating VDC	Coil Resistance ± 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 ± 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



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

### ZETTLER electronics GmbH