

AZ957

SUBMINIATURE PC BOARD RELAY

FEATURES

- Subminiature size for high density packaging
- DIL pitch terminals
- Epoxy sealed for automatic wave soldering
- High sensitivity: 150mW nominal with 96mW pickup
- Meets FCC Part 68.302 1500V lightning surge
- Meets FCC Part 68.304 1000V dielectric
- UL, CUR file E43203



CONTACTS

Arrangement	SPDT (1 Form C) Crossbar contacts
Ratings	Resistive load: Max. switched power: 30W or 62.5VA Max. switched current: 1A Max. switched voltage: 60VDC or 125VAC UL Rating: 1A at 30VDC 0.3A at 60VDC 0.5A at 125VAC
Material	Silver gold clad
Resistance	< 100 milliohms initially (6V, 1A voltage drop method)

COIL

Power At Pickup Voltage (typical)	Standard coil: 128mW Sensitive coil: 96mW
Max. Continuous Dissipation	0.5W at 20°C (68°F) ambient
Temperature Rise	Standard: 33°C (59°F) at nominal coil voltage Sensitive: 25°C (45°F) at nominal coil voltage
Temperature	Max. 105°C (221°F)

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Other coil resistances and sensitivities available upon request.
4. Specifications subject to change without notice.

GENERAL DATA

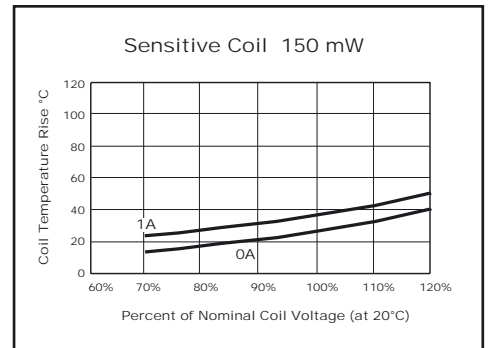
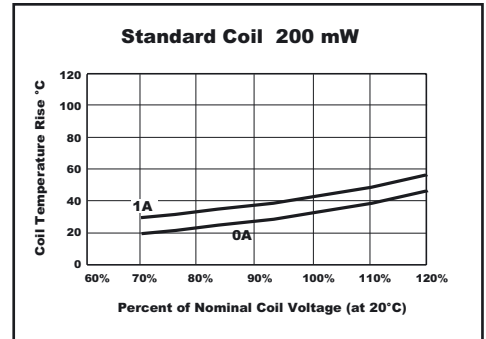
Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ operations 1 x 10 ⁵ at 0.5A, 125VAC Res.
Operate Time (typical)	Standard: 3ms at nominal coil voltage Sensitive: 5ms at nominal coil voltage
Release Time (typical)	1ms at nominal coil voltage (with no coil suppression)
Capacitance	Coil to contact: 7.0pF Contact to contact: 7.0pF
Bounce (typical)	At 10mA contact current 2ms at operate 8ms at release
Dielectric Strength (at sea level for 1 min.)	1000Vrms coil to contact 500Vrms between open contacts Meets FCC Part 68.302 1500V lightning surge Meets FCC Part 68.304 1000V dielectric
Insulation Resistance	100 megohms min. at 20°C, 500VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage Standard: -40°C (-40°F) to 70°C (158°F) Sensitive: -40°C (-40°F) to 80°C (176°F) Both: -40°C (-40°F) to 105°C (221°F)
Vibration	3.3mm DA at 10–55 Hz
Shock	20 g Functional, 100g destructive
Enclosure	P.E.T. polyester
Terminals	Tinned copper alloy
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Immersion Time	30 seconds
Weight	2.2 grams

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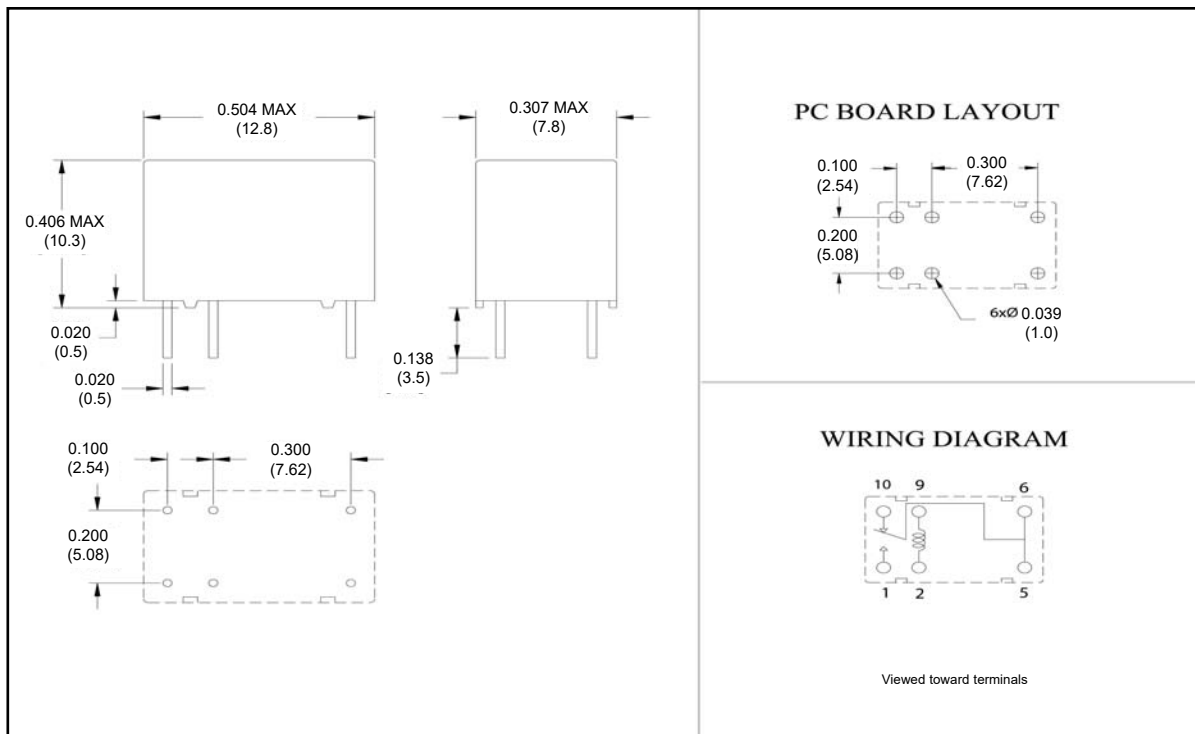
RELAY ORDERING DATA

COIL SPECIFICATIONS: STANDARD COIL				
Nominal Coil VDC	Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	ORDER NUMBER
1.5	1.2	2.4	11.3	AZ957-1C-1.5DE
3	2.4	4.7	45.0	AZ957-1C-3DE
5	4.0	7.9	125	AZ957-1C-5DE
6	4.8	9.5	180	AZ957-1C-6DE
9	7.2	14.2	405	AZ957-1C-9DE
12	9.6	19.0	720	AZ957-1C-12DE
24	19.2	37.9	2,880	AZ957-1C-24DE

COIL SPECIFICATIONS: SENSITIVE COIL				
Nominal Coil VDC	Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	ORDER NUMBER
1.5	1.2	2.7	15.0	AZ957-1C-1.5DSE
3	2.4	5.5	60.0	AZ957-1C-3DSE
5	4.0	9.1	167	AZ957-1C-5DSE
6	4.8	11.0	240	AZ957-1C-6DSE
9	7.2	16.4	540	AZ957-1C-9DSE
12	9.6	21.9	960	AZ957-1C-12DSE
24	19.2	43.8	3,840	AZ957-1C-24DSE



MECHANICAL DATA



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

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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.