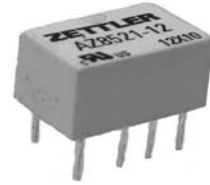


AZ8521

SUBMINIATURE SIGNAL RELAY

FEATURES

- Conforms to IEC60950/EN41003 spacing and high break-down voltage
- Monostable and bistable (latching) coil versions available
- High dielectric and surge voltage:
2.5 KV surge (per FCC Part 68) and meets Telcordia
- Low power consumption: 64 mW pickup
- Stable contact resistance for low level signal switching
- UL , CUR E43203



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁸ at 3Hz 1 x 10 ⁵ at 0.5 A, 125 VAC, Res. 1 x 10 ⁵ at 2.0 A, 30 VDC, Res.
Operate Time (typical)	3 ms at nominal coil voltage
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)
Bounce (typical)	At 10 mA contact current 1 ms at operate or release
Capacitance	< 1 pF at 10 KHz—open contacts < 1 pF at 10 KHz—adjacent contact sets
Dielectric Strength (at sea level)	See table
Dropout	Greater than 10% of nominal coil voltage
Insulation Resistance	10 ⁹ ohms min. at 25°C, 500 VDC, 50% RH
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 115°C (239°F)
Vibration	Functional 10–55 Hz 3.3mm DA Destructive 10-55Hz 5.0mm DA
Shock	Functional, 735 m/s ² Destructive, 980 m/s ²
Max. Solder Temp. Temp./Time	350°C (662°F) for 3 seconds 260°C (500°F) for 10 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	0.8 grams
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.

CONTACTS

Arrangement	DPDT (2 Form C)
Ratings	Resistive load: Max. switched power: 60 W or 62.5 VA Max. switched current: 2.0 A Max. switched voltage: 220 VDC or 250 VAC
Rated Load UL/CSA	0.5 A at 125 VAC 2.0 A at 30 VDC 0.5 A at 125 VDC
Material	Silver alloy; gold clad
Resistance	< 70 milliohms initially at 6 V, 1 A

COIL (Polarized)

Power At Pickup Voltage (typical)	56 mW - Latching coils 79 mW (3–12 VDC) - Standard coils 130 mW (24 VDC) - Standard coils
Max. Continuous Dissipation	1.0 W at 20°C (68°F) 0.78 W at 40°C (104°F)
Temperature Rise	At nominal coil voltage 18°C (32°F) (3–12 VDC) 25°C (45°F) (24 VDC)
Temperature	Max. 115°C (239°F)

NOTES

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

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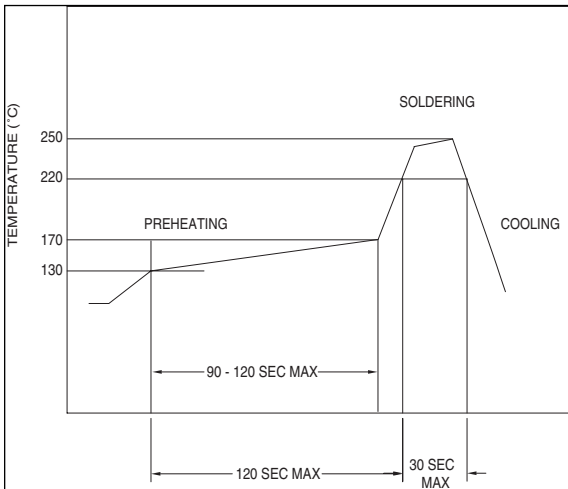
RELAY ORDERING DATA

NON-LATCHING VERSION - STANDARD				ORDER NUMBER		
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	THT	SMT*	SMT Short Leg*
				1.5	2.25	16.1
3	4.5	64.3	2.25	AZ8521-3	AZ8521S-3	AZ8521S1-3
4.5	6.75	145	3.38	AZ8521-4.5	AZ8521S-4.5	AZ8521S1-4.5
5	7.5	178	3.75	AZ8521-5	AZ8521S-5	AZ8521S1-5
6	9	257	4.5	AZ8521-6	AZ8521S-6	AZ8521S1-6
9	13.5	579	6.75	AZ8521-9	AZ8521S-9	AZ8521S1-9
12	18	1028	9.00	AZ8521-12	AZ8521S-12	AZ8521S1-12
24	36	2504	18.00	AZ8521-24	AZ8521S-24	AZ8521S1-24

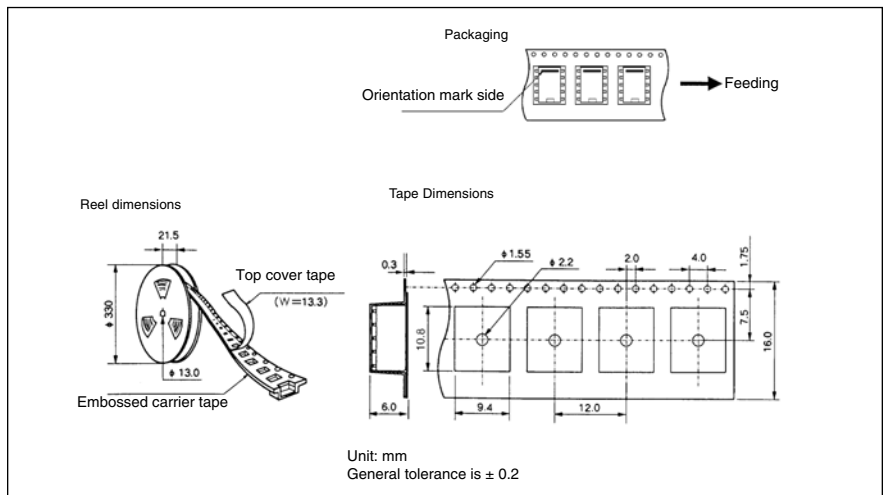
LATCHING VERSION				ORDER NUMBER		
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	THT	SMT*	SMT Short Leg*
				1.5	2.25	22.5
3	4.5	90	2.25	AZ8521P-3	AZ8521PS-3	AZ8521PS1-3
4.5	6.75	203	3.38	AZ8521P-4.5	AZ8521PS-4.5	AZ8521PS1-4.5
5	10	250	3.75	AZ8521P-5	AZ8521PS-5	AZ8521PS1-5
6	9	360	4.50	AZ8521P-6	AZ8521PS-6	AZ8521PS1-6
9	13.5	810	6.75	AZ8521P-9	AZ8521PS-9	AZ8521PS1-9
12	18	1440	9.00	AZ8521P-12	AZ8521PS-12	AZ8521PS1-12
24	36	4800	18.00	AZ8521P-24	AZ8521PS-24	AZ8521PS1-24

For SMT short leg add "1" after S. *Tape and reel available (900 pcs/reel minimum) add suffix "TR"

Temperature Profile



Packaging Specifications



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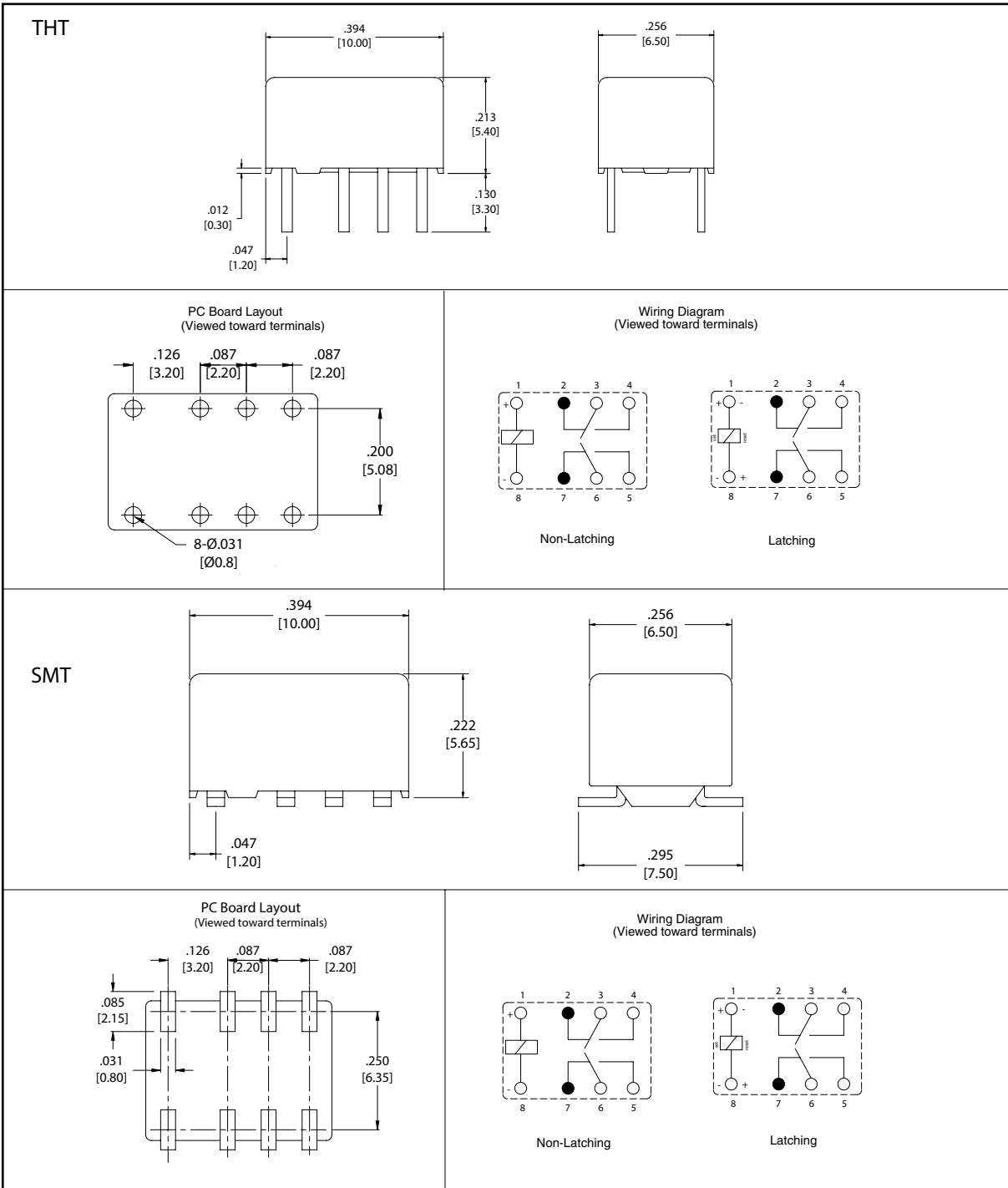
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	INITIAL DIELECTRIC STRENGTH (minimum)		SURGE	
	VRMS, 1 min.	Peak (V)	Rise Time (μ S)	Decay Time* (9μ S) (1/2 peak)
Between open contacts	1,000	1,500	10	160
Between contact sets	1,800	-	-	-
Between coil and contacts	1,600	2,500	2	10

* Decay time measured from beginning of surge.

Mechanical Data



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