AZ8463

MICROMINIATURE POLARIZED RELAY

FEATURES

- Microminiature size: up to 50% less board area than previous generation telecom relays
- High dielectric and surge voltage:
  2.5 KV surge (per Bellcore TA–NWT–001089)
  1.5 KV surge (per FCC Part 68)
  1,000 Vrms, open contacts
- Monostable and bistable (latching) versions available
- Low power consumption: 79 mW pickup
- Stable contact resistance for low level signal switching
- Epoxy sealed for automatic wave soldering and cleaning
- UL, CUR file E43203 SMT Version - UL Pending
- All plastics meet UL94 V–0, 30 min. oxygen index



CONTACTS

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts
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/CUR pending**	0.5 A at 125 VAC 2.0 A at 30 VDC
Material	Silver alloy, gold plated
Resistance	< 75 milliohms initially at 6 V, 1 A

COIL (Polarized)

Power **At Pickup Voltage (typical)**	79 mW
Max. Continuous Dissipation	0.32 W at 20°C (68°F)
Temperature Rise	At nominal coil voltage 30° (54° F) max
Temperature	Max. 115°C (239°F)

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 (max)	4 ms at nominal coil voltage
Release Time (max)	4 ms at nominal coil voltage (with no coil suppression)
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	Operational, 3.3 mm DA, 10–55 Hz Non-destructive, 5.5 mm DA, 10–55 Hz
Shock	Operational, 75 g min., 11 ms Non-destructive, 100 g min., 11 ms
Max. Solder Temp.	260°C (500°F) for 5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	2 grams
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.

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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10-/31/08W

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RELAY ORDERING DATA

STANDARD VERSION					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	ORDER NUMBER THT	ORDER NUMBER SMT*
3	2.25	4.5	64.3	AZ8463–3	AZ8463S–3
4.5	3.38	6.7	145	AZ8463–4.5	AZ8463S–4.5
5	3.75	7.5	178	AZ8463–5	AZ8463S–5
6	4.50	9.0	257	AZ8463–6	AZ8463S–6
9	6.75	13.5	579	AZ8463–9	AZ8463S–9
12	9.00	18.0	1028	AZ8463–12	AZ8463S–12
24	18.00	36.0	2880	AZ8463–24	AZ8463S–24
SINGLE COIL LATCHING VERSION					
Nominal Coil VDC	Set Voltage	Max. Continuous VDC	Coil Resistance ± 10%	ORDER NUMBER THT	ORDER NUMBER SMT*
3	2.25	4.5	90	AZ8463P1–3	AZ8463P1S–3
4.5	3.38	6.7	203	AZ8463P1–4.5	AZ8463P1S–4.5
5	3.75	7.5	250	AZ8463P1–5	AZ8463P1S–5
6	4.50	9.0	360	AZ8463P–-6	AZ8463P1S–-6
9	6.75	13.5	810	AZ8463P1–9	AZ8463P1S–9
12	9.00	18.0	1440	AZ8463P1–12	AZ8463P1S–12
24	18.00	36.0	3840	AZ8463P1–24	AZ8463P1S–24

*Add “1” after S for SA SMT version.

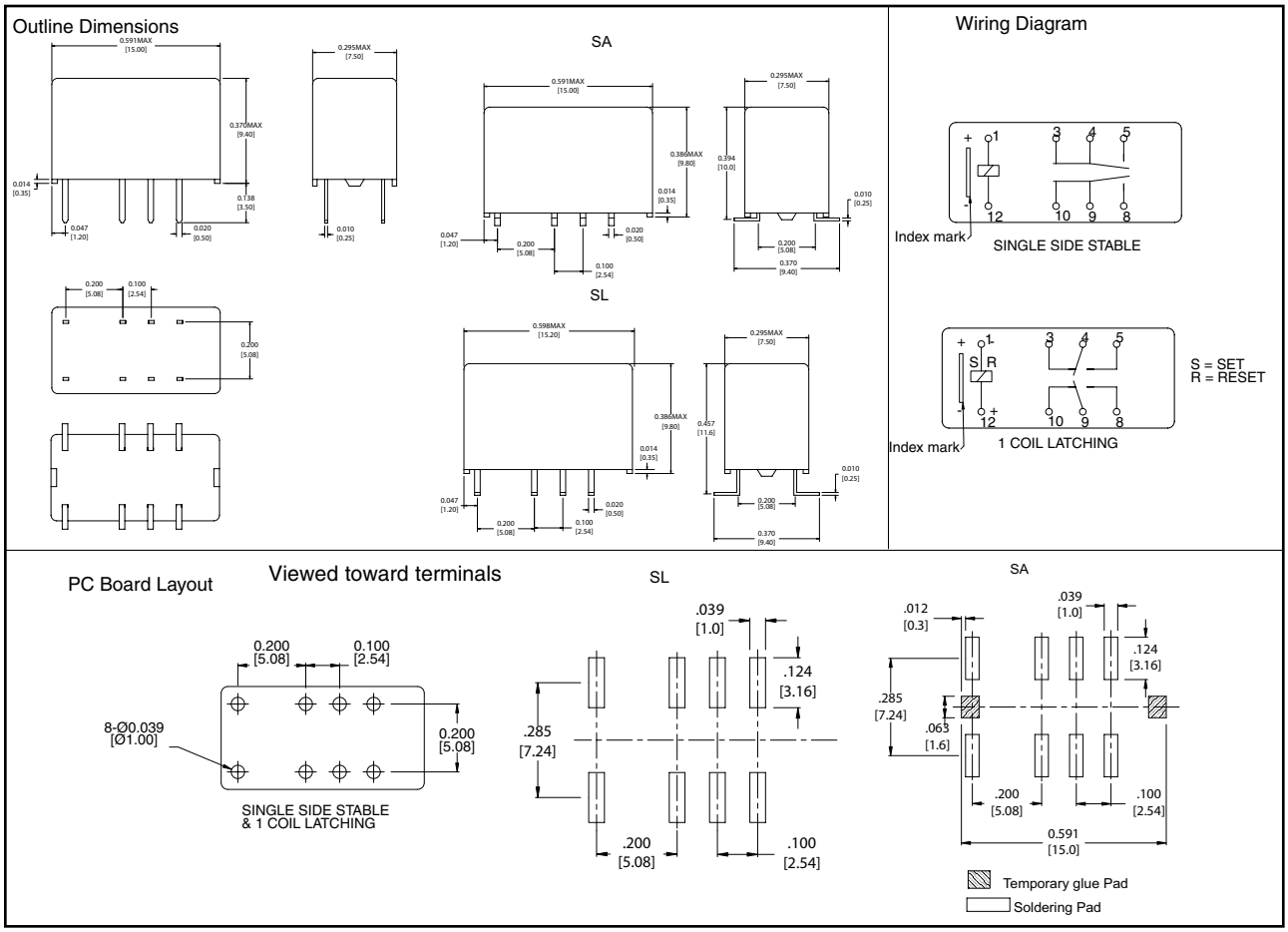
INITIAL DIELECTRIC STRENGTH (minimum)		SURGE		
	VRMS, 1 min.	Peak (V)	Rise Time (µS)	Decay Time* (9µS) (1/2 peak)
Between open contacts	1,000	1,500	10	160
Between contact sets	1,000	1,500	2	160
Between coil and contacts	1,500	2,500	2	10

* Decay time measured from beginning of surge.

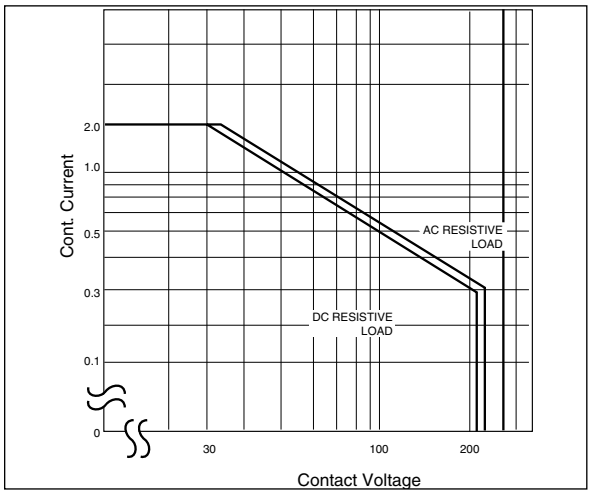
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Mechanical Data



Maximum Switching Capacity



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