

# 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

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

### COIL (Polarized)

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

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>8</sup> at 3Hz 1 x 10 <sup>5</sup> at 0.5 A, 125 VAC, Res. 1 x 10 <sup>5</sup> at 2.0 A, 30 VDC, Res.
<b>Operate Time (max)</b>	4 ms at nominal coil voltage
<b>Release Time (max)</b>	4 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level)</b>	See table
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<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 85°C (185°F) -40°C (-40°F) to 115°C (239°F)
<b>Vibration</b>	Operational, 3.3 mm DA, 10–55 Hz Non-destructive, 5.5 mm DA, 10–55 Hz
<b>Shock</b>	Operational, 75 g min., 11 ms Non-destructive, 100 g min., 11 ms
<b>Max. Solder Temp.</b>	260°C (500°F) for 5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	2 grams
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	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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## RELAY ORDERING DATA

STANDARD VERSION					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	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 $\pm 10\%$	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	AZ8463P1-6	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 ( $\mu$ S)	Decay Time* (9 $\mu$ S) (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.

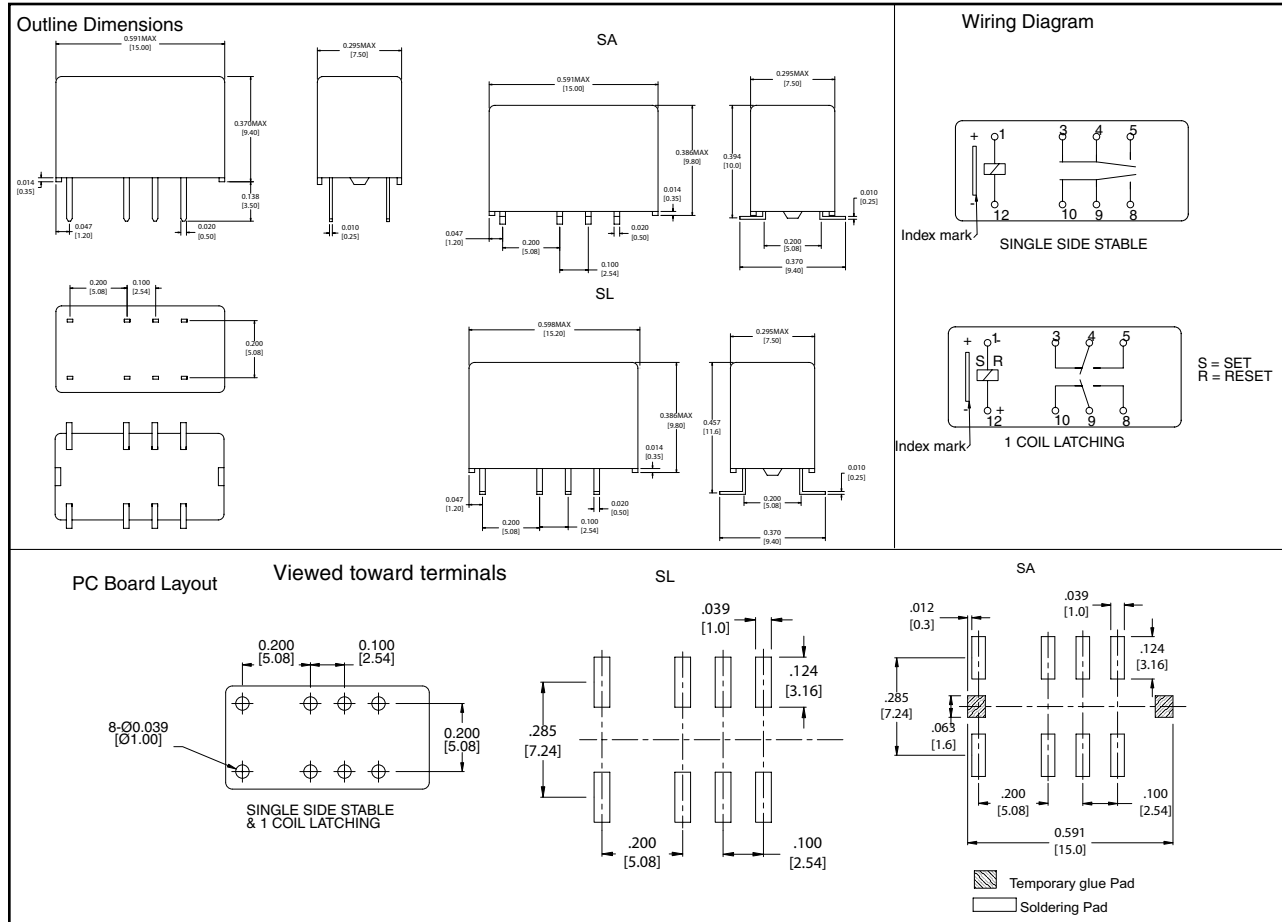
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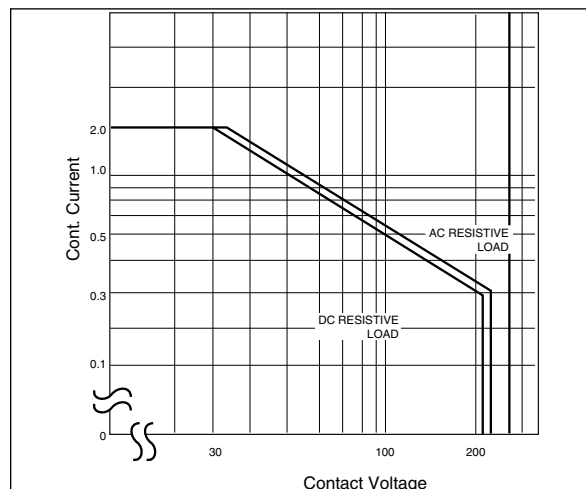
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## Mechanical Data



## Maximum Switching Capacity



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