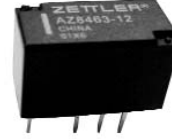


AZ8463

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 Temperature Rise	0.32 W at 20°C (68°F) 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.

AZ8463

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 (μ S)	Decay Time* (9 μ 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

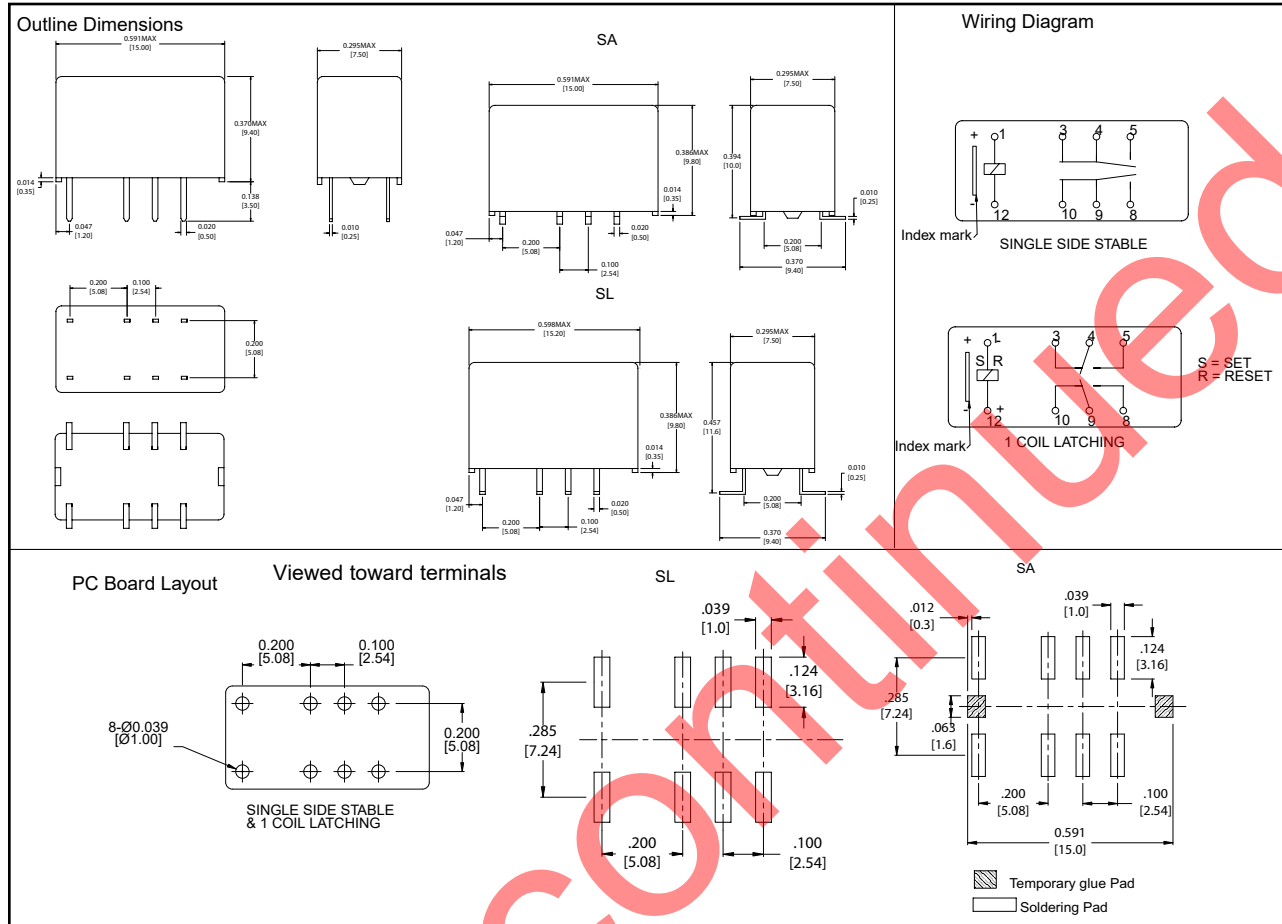
* Decay time measured from beginning of surge.

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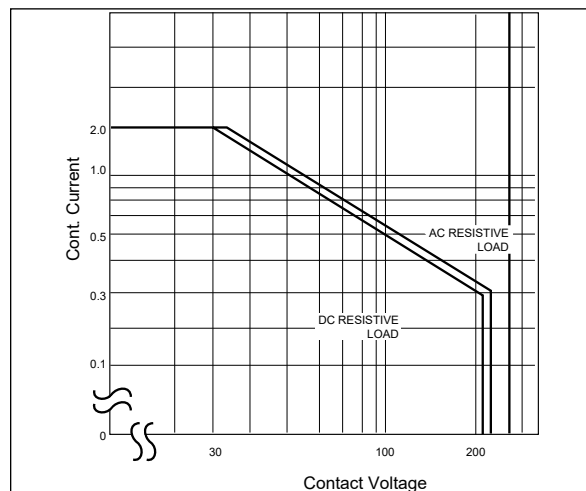
10/31/08W

AZ8463

Mechanical Data



Maximum Switching Capacity



AMERICAN ZETTLER, INC.

10/31/08W

PHONE: (949) 831-5000

www.azettler.com

E-MAIL: SALES@AZETTLER.COM

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.