

POLARIZED DIP RELAY SINGLE SIDE STABLE

FEATURES

- Low profile for compact board spacing
- DC coils to 48 VDC
- High sensitivity, 96 mW pickup
- Life expectancy to 20 million operations
- High switching capacity, 60 W, 250 VA
- Fits standard 16 pin IC socket
- Epoxy sealed
- Meets FCC Part 68.302 1500 V lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- UL, CUR file E43203



CONTACTS

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts
Ratings	Resistive load: Max. switched power: 60 W or 250 VA Max. switched current: 5 A Max. switched voltage: 250 VDC or 250 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL	2 A at 30 VDC resistive 1 A at 125 VAC resistive
Material	Gold plated silver against palladium silver. Gold plated palladium silver against palladium silver (Suffix "A")
Resistance	< 50 milliohms initially

COIL

Power At Pickup Voltage (typical)	Standard coil: 128 mW Sensitive coil: 96 mW
Max. Continuous Dissipation	0.9 W at 20°C (68°F)
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. For complete isolation between the relay's magnetic fields, it is recommended that a 197" (5.0 mm) space be provided between adjacent relays.
5. Relay adjustment may be affected if undue pressure is exerted on relay case.
6. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 2 x 10 ⁷ 1 x 10 ⁵ at 2 A, 30 VDC or 1 A, 125 VAC 2 x 10 ⁶ at 1 A, 30 VDC or 0.5 A, 125 VAC
Operate Time (typical)	3 ms at nominal coil voltage
Release Time (typical)	2 ms at nominal coil voltage (with no coil suppression)
Bounce (typical)	3 ms
Dielectric Strength (at sea level)	1500 Vrms contact to coil 1000 Vrms between contact sets 1000 Vrms across contacts Meets FCC Part 68.302 lightning surge Meets FCC Part 68.304 V dielectric
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	50 g at 10–500 Hz
Shock	50 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	5 grams

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AZ832

RELAY ORDERING DATA

STANDARD COIL				
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	
3	6.4	45.0	2.4	AZ832-2C-3DE
5	10.6	125	4.0	AZ832-2C-5DE
6	12.7	180	4.8	AZ832-2C-6DE
9	19.1	405	7.2	AZ832-2C-9DE
12	25.5	720	9.6	AZ832-2C-12DE
24	50.9	2,880	19.2	AZ832-2C-24DE
48	101.8	11,520	38.4	AZ832-2C-48DE

NON-SENSITIVE COIL				
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	
3	5.7	36	2.25	AZ832-2C-3DME
5	9.2	95	3.75	AZ832-2C-5DME
6	11.0	150	4.5	AZ832-2C-6DME
12	23.2	600	9.0	AZ832-2C-12DME
24	44.6	2,210	18.0	AZ832-2C-24DME
48	93.7	9,750	36.0	AZ832-2C-48DME

SENSITIVE COIL				
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	
5	12.3	167	4.0	AZ832-2C-5DSE
6	14.5	240	4.8	AZ832-2C-6DSE
9	21.0	540	7.2	AZ832-2C-9DSE
12	29.0	960	9.6	AZ832-2C-12DSE
24	57.0	3,840	19.2	AZ832-2C-24DSE

*Add suffix "A" for gold plated palladium silver against palladium silver contact material.

MECHANICAL DATA

Top View Dimensions: .795 MAX. [20.20], .026 [0.66], .419 MAX. [10.65], .118 [3.00], .048 [1.21], 8x .024$\pm$.005 [0.61$\pm$0.12], 8x .012$\pm$.005 [0.30$\pm$0.12], .394 MAX. [10.00]. Bottom View Dimensions: .024 REF. [0.61], .012 REF. [0.30], .300 [7.62].	PC BOARD LAYOUT PC Board Layout Dimensions: .048 [1.21], .300 [7.62], .047 [1.19], .300 [7.62], 8 x $\varnothing$.039 [$\varnothing$1.0], 2x .200 [5.08]. WIRING DIAGRAM (WATCH FOR POLARITY) VIEWED TOWARD TERMINALS
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Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010''$

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