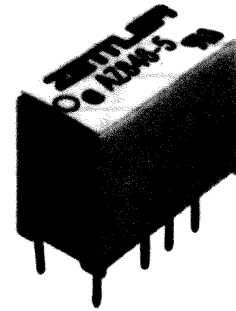


AZ 846 MICRO MINIATURE POLARIZED RELAY

Features

- Micro Miniature Size - Up To 50% Less Board Space Than Previous Generation Telecom Relays
- High Dielectric and Surge Voltage - 2.5kV Surge (per Bellcore TA-NWT-001089) 1.5kV Surge (per FCC Part 68) 1,000Vrms, Open Contacts
- Low Power Consumption - 79mW Pick-up
- Stable Contact Resistance for Low-level Signal Switching
- All Plastics Meet UL94 V-0, 30 min. Oxygen Index
- UL Recognized & CSA Certified



7 RELAYS

Specifications

Contacts

Arrangement	DPDT (2 Form C) Bifurcated crossbar contacts
Rating	Noninductive load Max switched power: 60W or 62.5VA Max switched current: 2 Amps Max switched voltage: 220VDC or 250VAC
UL, CSA Rating	0.5A @ 125VAC 2A @ 30VDC 0.3A @ 110VDC
Material	Silver Alloy, Gold Clad
Resistance	100 milliohms initially @ 6V, 0.1A

Coil

Power	Non latching: 79mW (3-12VDC), 113mW (24VDC) Latching: 56mW (3-12VDC)
Max Continuous Dissipation	826mW @ 20C (68F) ambient 652mW @ 40C (104F) ambient
Temperature Rise (at nominal voltage)	18C (64F) (3-12VDC) 30C (86F) (24VDC)
Temperature	Maximum 115C (239F)

General Data

Life Expectancy	Minimum operations 100,000,000
Mechanical Electrical	100,000 @ 0.5A, 125VAC, resistive 200,000 @ 1A, 30VDC, resistive
Operate, Set or Reset Time	2 ms at nominal coil voltage (typical)
Release Time (typical)	1ms at nominal coil voltage with no coil suppression
Capacitance	<1pF @ 10kHz - open contacts <1pF @ 10kHz - adjacent contact sets
Bounce	At 10mA contact current 1 ms at operate or set 1 ms at release or reset
Dielectric Strength	(see table)
Insulation Resistance	1,000 megohms min @ 25C (77F), 50VDC, 50% RH
Ambient Temp (operating)	At nominal coil voltage Standard: -40C (-40F) to 85C (185F)
Vibration	20g, 10-55Hz operational 30g, 10-55Hz non-destructive
Shock	50g min., 11 ms operational 100g min., 11 ms non-destructive
Enclosure	P.B.T. Polyester
Terminals	Tinned copper alloy, P.C.
Max Solder Temp	350C (662F) for 3 seconds 280C (500F) for 10 seconds
Max Solvent Temp	80C (176F)
Immersion Time	30 seconds maximum
Weight	1.5 grams

Notes

- 1 All values at 20C (68F) unless otherwise indicated
- 2 Relay may pull in with less 'Must Operate' value
- 3 Relay has fixed coil polarity
- 4 Specifications subject to change without notice

Relay Ordering Data

Single Side Stable (Standard, Non-Latching)

Coil Specifications				ORDER NUMBER
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	
3	6.90	64	2.25	AZ 846-3
4.5	10.38	145	3.38	AZ 846-4
5	11.50	178	3.75	AZ 846-5
6	13.82	257	4.50	AZ 846-6
9	20.75	579	6.75	AZ 846-9
12	27.64	1,028	9.00	AZ 846-12
24	46.27	2,880	18.00	AZ 846-24

Bistable (Latching) Single Coil

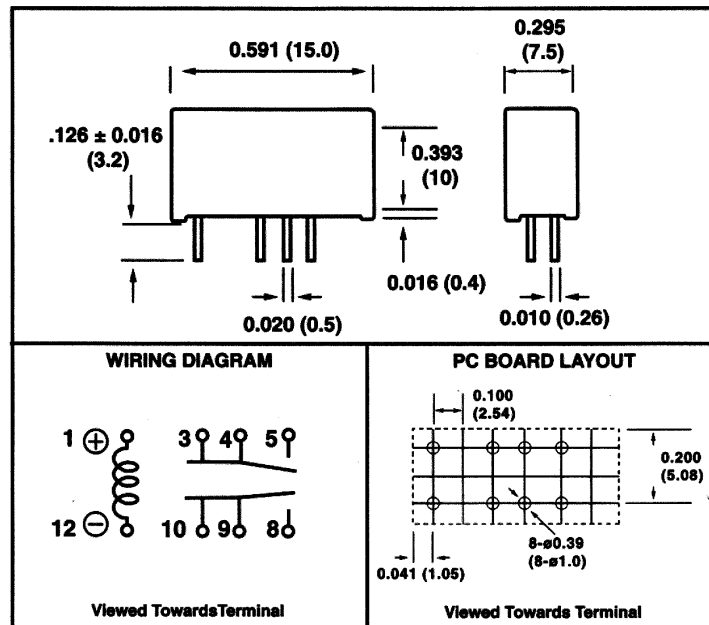
Coil Specifications				ORDER NUMBER
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	
3	8.18	90	2.25	AZ 846P1-3
4.5	12.28	203	3.38	AZ 846P1-4
5	13.63	250	3.75	AZ 846P1-5
6	16.36	360	4.50	AZ 846P1-6
9	24.54	810	6.75	AZ 846P1-9
12	32.72	1,440	9.00	AZ 846P1-12

Dielectric Strength

Peak (V)	Surge		Initial Dielectric Strength (minimum)	
	Risetime (us)	Decay (us)	Vrms, 1 min	Consideration
1,500	10	160	1,000	Between open contacts
1,500	2	160	1,000	Between contact sets
2,500	2	10	1,800	Between Coil and Contacts

Decay time measured from beginning of surge (1/2 peak)

Mechanical Dimensions



Dimensions in inches with metric equivalents in parentheses. Tolerance is 0.010"