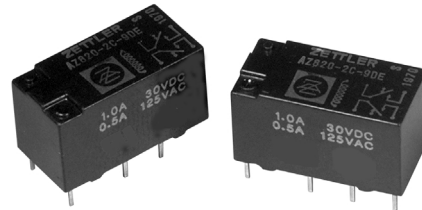


# AZ826

## SUBMINIATURE ULTRA-SENSITIVE DIP RELAY

### FEATURES

- Low profile for compact board spacing
- DC coils to 24 VDC
- Bifurcated crossbar contacts
- Ultra-sensitivity, 84 mW pickup
- Life expectancy to 10 million operations
- High switching capacity, 24 W, 125 VA
- Fits standard 16 pin IC socket
- Epoxy sealed for automatic wave soldering and cleaning
- 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)                                                                                                                   |
| Ratings          | Resistive load:<br>Max. switched power: 24 W or 125 VA<br>Max. switched current: 1 A<br>Max. switched voltage: 150 VDC or 220 VAC |
| Rated Load<br>UL | 1.0 A at 24 VDC<br>1.0 A at 125 VAC                                                                                               |
| Material         | Silver, gold plated                                                                                                               |
| Resistance       | < 50 milliohms initially                                                                                                          |

### COIL

|                                         |                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------|
| Power<br>At Pickup Voltage<br>(typical) | 180 mW standard<br>100 mW sensitive<br>84 mW ultra-sensitive                 |
| Max. Continuous<br>Dissipation          | 1.2 W at 20°C (68°F)                                                         |
| Temperature Rise                        | 34°C (61°F) standard<br>23°C (41°F) sensitive<br>19°C (34°F) ultra-sensitive |
| Temperature                             | Max. 105°C (221°F)                                                           |

### NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Other coil resistances and sensitivities available upon request.
4. Specifications subject to change without notice.

### GENERAL DATA

|                                                  |                                                                                                                                                                                                 |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Life Expectancy<br>Mechanical<br>Electrical      | Minimum operations<br>1 x 10 <sup>7</sup><br>1 x 10 <sup>5</sup> at 1.0 A 120 VAC Res.                                                                                                          |
| Operate Time (typical)                           | 6 ms at nominal coil voltage                                                                                                                                                                    |
| Release Time (typical)                           | 5 ms at nominal coil voltage<br>(with no coil suppression)                                                                                                                                      |
| Dielectric Strength<br>(at sea level for 1 min.) | 1500 Vrms contact to coil<br>500 Vrms between open contacts<br>1500 Vrms contact set to contact set                                                                                             |
| Insulation Resistance                            | 1000 megohms min. at 20°C, 500 VDC,<br>50% RH                                                                                                                                                   |
| Dropout                                          | Greater than 10% of nominal coil voltage                                                                                                                                                        |
| Ambient Temperature<br>Operating<br><br>Storage  | At nominal coil voltage<br>-40°C (-40°F) to 70°C (158°F) standard<br>-40°C (-40°F) to 80°C (176°F) sensitive<br>-40°C (-40°F) to 85°C (185°F) ultra-sensitive<br>-40°C (-40°F) to 105°C (221°F) |
| Vibration                                        | 1.5 mm DA at 10–55 Hz                                                                                                                                                                           |
| Shock                                            | 50 g 11 ms 1/2 sine                                                                                                                                                                             |
| Enclosure                                        | P.B.T. polyester                                                                                                                                                                                |
| Terminals                                        | Tinned copper alloy                                                                                                                                                                             |
| Max. Solder Temp.                                | 270°C (518°F)                                                                                                                                                                                   |
| Max. Solder Time                                 | 5 seconds                                                                                                                                                                                       |
| Max. Solvent Temp.                               | 80°C (176°F)                                                                                                                                                                                    |
| Max. Immersion Time                              | 30 seconds                                                                                                                                                                                      |



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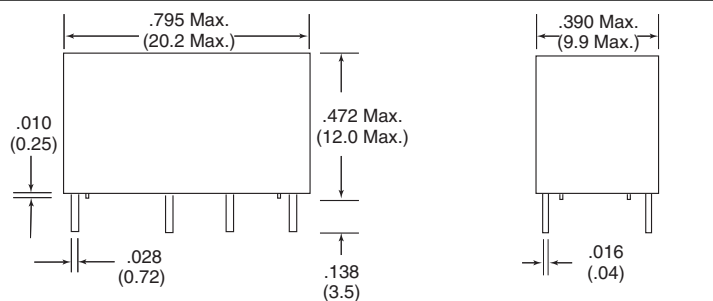
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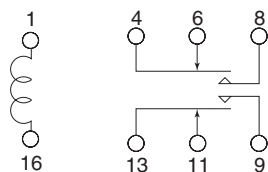
## RELAY ORDERING DATA

| STANDARD COIL SPECIFICATIONS        |                     |                            |                  | ORDER NUMBER     |
|-------------------------------------|---------------------|----------------------------|------------------|------------------|
| Nominal Coil VDC                    | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC |                  |
| 3                                   | 5.5                 | 25                         | 2.1              | AZ826-2C-3DME    |
| 5                                   | 9.2                 | 70                         | 3.5              | AZ826-2C-5DME    |
| 6                                   | 11.0                | 100                        | 4.2              | AZ826-2C-6DME    |
| 9                                   | 16.4                | 225                        | 6.3              | AZ826-2C-9DME    |
| 12                                  | 21.9                | 400                        | 8.4              | AZ826-2C-12DME   |
| 24                                  | 43.8                | 1600                       | 16.8             | AZ826-2C-24DME   |
| SENSITIVE COIL SPECIFICATIONS       |                     |                            |                  | ORDER NUMBER     |
| Nominal Coil VDC                    | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC |                  |
| 3                                   | 7.3                 | 45                         | 2.1              | AZ826-2C-3DSE    |
| 5                                   | 12.2                | 125                        | 3.5              | AZ826-2C-5DSE    |
| 6                                   | 14.7                | 180                        | 4.2              | AZ826-2C-6DSE    |
| 9                                   | 22.0                | 405                        | 6.3              | AZ826-2C-9DSE    |
| 12                                  | 29.0                | 720                        | 8.4              | AZ826-2C-12DSE   |
| 24                                  | 52.3                | 2880                       | 16.8             | AZ826-2C-24DSE   |
| ULTRA-SENSITIVE COIL SPECIFICATIONS |                     |                            |                  | ORDER NUMBER     |
| Nominal Coil VDC                    | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC |                  |
| 3                                   | 8.5                 | 60                         | 2.3              | AZ826-2C-3DSSE   |
| 4.5                                 | 12.7                | 135                        | 3.4              | AZ826-2C-4.5DSSE |
| 5                                   | 14.2                | 167                        | 3.8              | AZ826-2C-5DSSE   |
| 6                                   | 17.0                | 240                        | 4.5              | AZ826-2C-6DSSE   |
| 9                                   | 25.4                | 540                        | 6.8              | AZ826-2C-9DSSE   |
| 12                                  | 33.9                | 960                        | 9.0              | AZ826-2C-12DSSE  |
| 24                                  | 67.9                | 3840                       | 18.0             | AZ826-2C-24DSSE  |

## MECHANICAL DATA

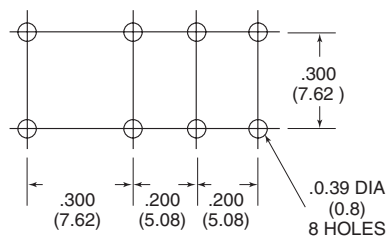


### WIRING DIAGRAM



Viewed toward terminals

### PC BOARD LAYOUT



Viewed toward terminals

Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010$ "



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