

# AZ934

## 20 AMP MINIATURE AUTOMOTIVE RELAY

### FEATURES

- Up to 20 Amp switching capability in a compact size
- Sealed
- Two separate relays in DPDT (dual) version
- Quiet operation
- Vibration and shock resistant
- ISO/TS 16949, ISO 14000
- Cost effective
- Designed for power windows, power seats and wiper applications



### CONTACTS

<b>Arrangement</b>	DPDT (2 Form C)
<b>Ratings</b>	Max. switched power: 280 W Max. switched voltage: 100 VDC Max. switched current (make/break), continuous: 2 Form C: 25A/20A, 20A
<b>Material</b>	Silver tin oxide (silver nickel available - contact factory)
<b>Resistance</b>	< 100 milliohms at 1A, 5 VDC

### COIL

<b>Power At Pickup Voltage (typical)</b>	203 mW
<b>Max. Continuous Dissipation</b>	2.2 W 20°C (68°F) ambient
<b>Temperature Rise</b>	32°C (58°F) nominal coil VDC
<b>Max. Temperature</b>	155°C (311°F)

### NOTES

1. All values at 20°C (68°F).
2. Maximum make current refers to in-rush current of lamp load.
3. Relay may pull in with less than "Must Operate" value.
4. Specifications subject to change without notice.

### GENERAL DATA

<b>Life Expectancy</b> Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> operations 2 x 10 <sup>5</sup> operations at 20 A 14 VDC Res.
<b>Operate Time (typical)</b>	3 ms at nominal coil voltage
<b>Release Time (typical)</b>	1.5 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength</b> (at sea level for 1 min.)	500 Vrms coil to contact 500 Vrms between open contacts
<b>Insulation Resistance</b>	100 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	> 8.3% of nominal coil voltage
<b>Ambient Temperature</b> Operating Storage	At nominal coil voltage -40°C (-40°F) to 100°C (212°F) -40°C (-40°F) to 155°C (311°F)
<b>Vibration</b>	0.062" DA at 10–55Hz, 10 g at 55-200 Hz
<b>Shock</b>	30 g, 11 ms, functional
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	10 grams

**AMERICAN ZETTLER, INC.**

[www.azettler.com](http://www.azettler.com)

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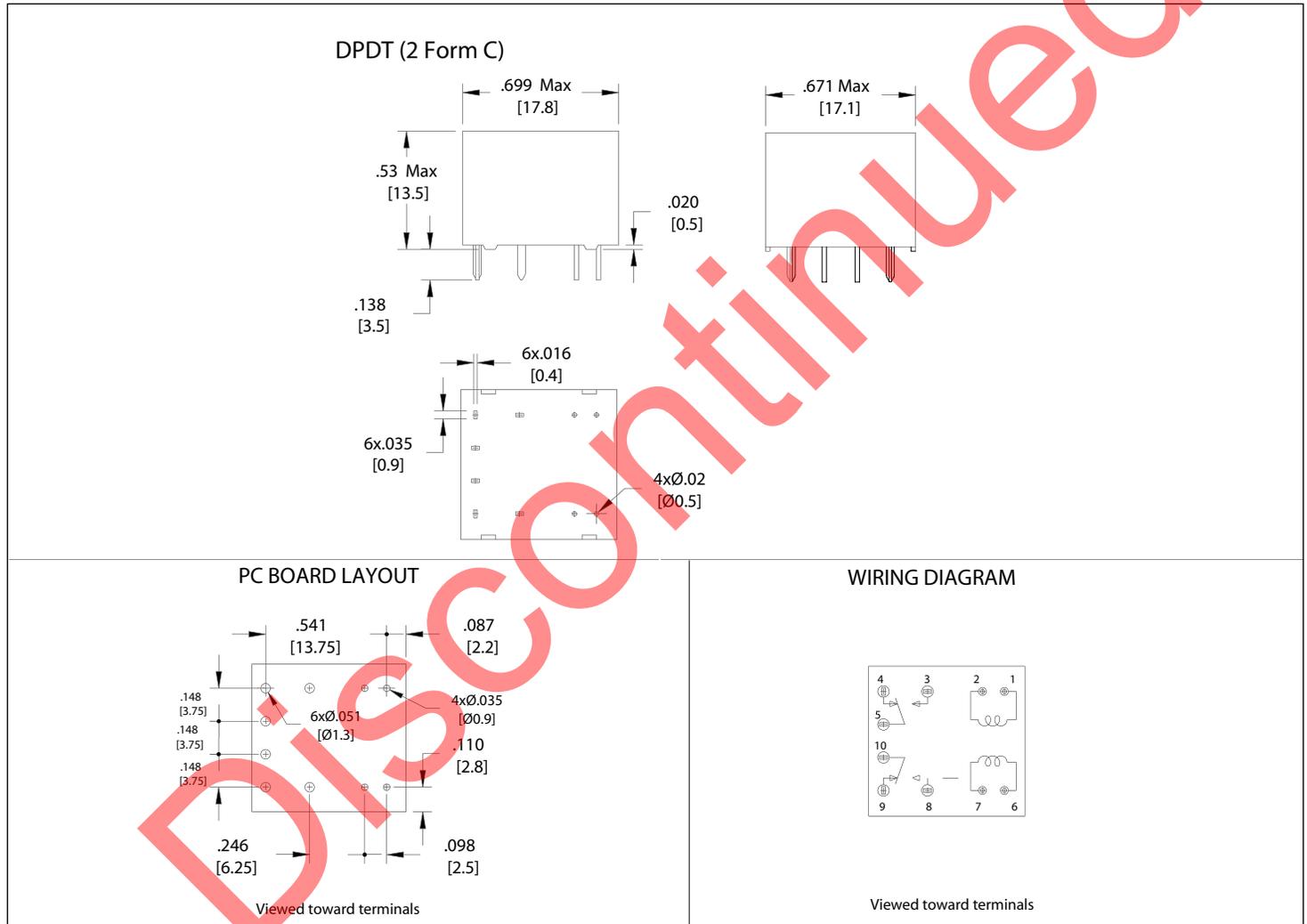
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## RELAY ORDERING DATA

COIL SPECIFICATIONS - DC Coil				ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	2 Form C (DPDT)
12	7.2	24.0	255	AZ934-2C-12DET

## MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm 0.010$ "

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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.