



# AZ23C2V4-AU SERIES

## DUAL SURFACE MOUNT ZENER DIODES

**VOLTAGE** 2.4 to 36 Volt **POWER** 300 mWatt

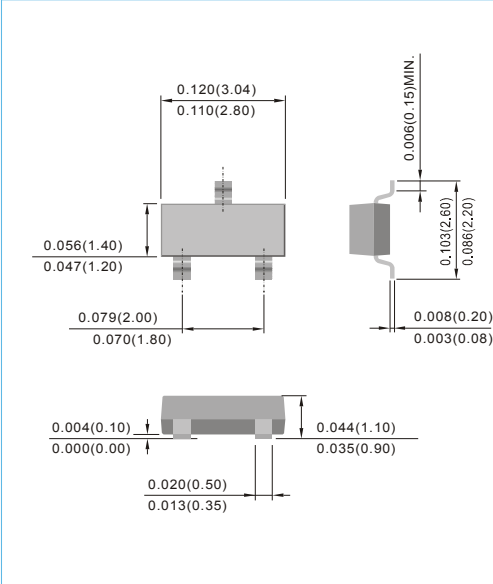
**SOT-23** Unit : inch(mm)

### FEATURES

- Dual Zeners in Common Anode Configuration
- 300mW Power Dissipation Rating
- Zener Voltages from 2.4~36V
- Ideally Suited for Automatic Insertion
- Common Cathode Style Available See DZ Series
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOT-23, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.008 grams

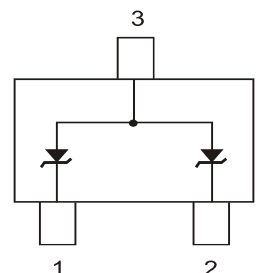


### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| PARAMETER  | SYMBOL          | VALUE       | UNITS         |
|--|-----------------|-------------|---------------|
| Power Dissipation (Note 1)                                   | $P_D$           | 300         | mW            |
| Thermal Resistance, Junction to Ambient Air (Note 1)         | $R_{\theta JA}$ | 417         | $^{\circ}C/W$ |
| Operating Junction Temperature and Storage Temperature Range | $T_J, T_{STG}$  | -55 to +150 | $^{\circ}C$   |

#### NOTES :

1. Mounted on 5mm<sup>2</sup>(0.013mm thick) land areas.
2. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.



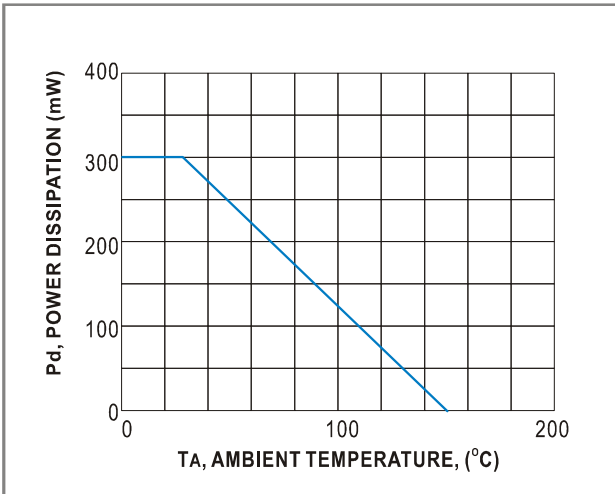


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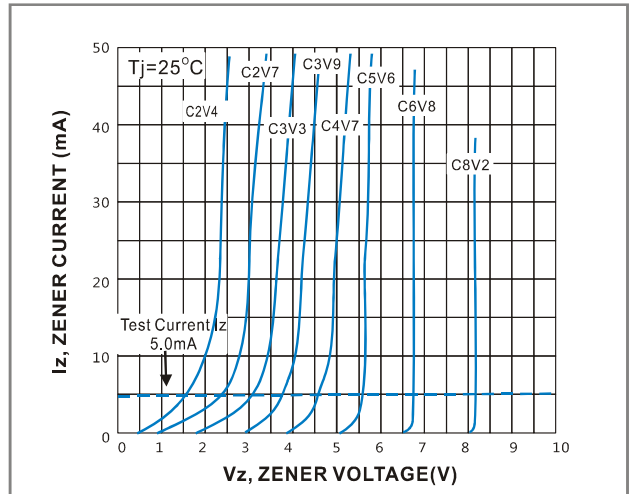
| Part Number | Nominal Zener Voltage            |        |        | Max. Zener Impedance              |     |                                   |      | Max Reverse Leakage Current     |      | Marking Code |
|-------------|----------------------------------|--------|--------|-----------------------------------|-----|-----------------------------------|------|---------------------------------|------|--------------|
|             | V <sub>Z</sub> @ I <sub>ZT</sub> |        |        | Z <sub>zT</sub> @ I <sub>ZT</sub> |     | Z <sub>zK</sub> @ I <sub>zK</sub> |      | I <sub>R</sub> @ V <sub>R</sub> |      |              |
|             | Nom. V                           | Min. V | Max. V | Ω                                 | mA  | Ω                                 | mA   | μA                              | V    |              |
| AZ23C2V4-AU | 2.4                              | 2.28   | 2.52   | 85                                | 5.0 | 600                               | 1.00 | 100                             | 1.0  | DO           |
| AZ23C2V7-AU | 2.7                              | 2.57   | 2.84   | 83                                | 5.0 | 600                               | 1.00 | 75                              | 1.0  | DA           |
| AZ23C3V0-AU | 3.0                              | 2.85   | 3.15   | 95                                | 5.0 | 600                               | 1.00 | 50                              | 1.0  | DB           |
| AZ23C3V3-AU | 3.3                              | 3.14   | 3.47   | 95                                | 5.0 | 600                               | 1.00 | 25                              | 1.0  | DC           |
| AZ23C3V6-AU | 3.6                              | 3.42   | 3.78   | 95                                | 5.0 | 600                               | 1.00 | 15                              | 1.0  | DD           |
| AZ23C3V9-AU | 3.9                              | 3.71   | 4.10   | 95                                | 5.0 | 600                               | 1.00 | 10                              | 1.0  | DE           |
| AZ23C4V3-AU | 4.3                              | 4.09   | 4.52   | 95                                | 5.0 | 600                               | 1.00 | 5.0                             | 1.0  | DF           |
| AZ23C4V7-AU | 4.7                              | 4.47   | 4.94   | 78                                | 5.0 | 500                               | 1.00 | 5.0                             | 1.0  | DG           |
| AZ23C5V1-AU | 5.1                              | 4.85   | 5.36   | 60                                | 5.0 | 480                               | 1.00 | 0.1                             | 0.8  | DH           |
| AZ23C5V6-AU | 5.6                              | 5.32   | 5.88   | 40                                | 5.0 | 400                               | 1.00 | 0.1                             | 1.0  | DI           |
| AZ23C6V2-AU | 6.2                              | 5.89   | 6.51   | 10                                | 5.0 | 150                               | 1.00 | 0.1                             | 2.0  | DJ           |
| AZ23C6V8-AU | 6.8                              | 6.46   | 7.14   | 8                                 | 5.0 | 80                                | 1.00 | 0.1                             | 3.0  | D11          |
| AZ23C7V5-AU | 7.5                              | 7.13   | 7.88   | 7                                 | 5.0 | 80                                | 1.00 | 0.1                             | 5.0  | D12          |
| AZ23C8V2-AU | 8.2                              | 7.79   | 8.61   | 7                                 | 5.0 | 80                                | 1.00 | 0.1                             | 6.0  | D13          |
| AZ23C9V1-AU | 9.1                              | 8.65   | 9.56   | 10                                | 5.0 | 100                               | 1.00 | 0.1                             | 7.0  | D14          |
| AZ23C10-AU  | 10                               | 9.50   | 10.50  | 15                                | 5.0 | 150                               | 1.00 | 0.1                             | 7.5  | D15          |
| AZ23C11-AU  | 11                               | 10.45  | 11.55  | 20                                | 5.0 | 150                               | 1.00 | 0.1                             | 8.5  | D16          |
| AZ23C12-AU  | 12                               | 11.40  | 12.60  | 20                                | 5.0 | 150                               | 1.00 | 0.1                             | 9.0  | D17          |
| AZ23C13-AU  | 13                               | 12.35  | 13.65  | 25                                | 5.0 | 170                               | 1.00 | 0.1                             | 10.0 | D18          |
| AZ23C15-AU  | 15                               | 14.25  | 15.75  | 30                                | 5.0 | 200                               | 1.00 | 0.1                             | 11.0 | D19          |
| AZ23C16-AU  | 16                               | 15.20  | 16.80  | 40                                | 5.0 | 200                               | 1.00 | 0.1                             | 12.0 | D20          |
| AZ23C18-AU  | 18                               | 17.10  | 18.90  | 50                                | 5.0 | 225                               | 1.00 | 0.1                             | 14.0 | D21          |
| AZ23C20-AU  | 20                               | 19.00  | 21.00  | 50                                | 5.0 | 225                               | 1.00 | 0.1                             | 15.0 | D22          |
| AZ23C22-AU  | 22                               | 20.90  | 23.10  | 55                                | 5.0 | 250                               | 1.00 | 0.1                             | 17.0 | D23          |
| AZ23C24-AU  | 24                               | 22.80  | 25.20  | 80                                | 5.0 | 250                               | 1.00 | 0.1                             | 18.0 | D24          |
| AZ23C27-AU  | 27                               | 25.65  | 28.35  | 80                                | 5.0 | 300                               | 1.00 | 0.1                             | 20.0 | D25          |
| AZ23C36-AU  | 36                               | 34.20  | 37.80  | 90                                | 5.0 | 350                               | 1.00 | 0.1                             | 27.0 | D28          |



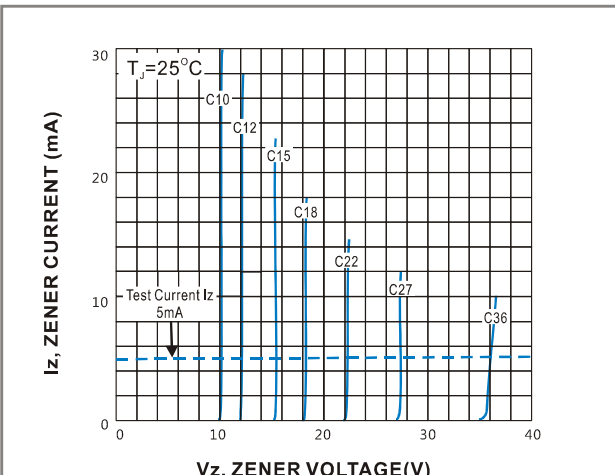
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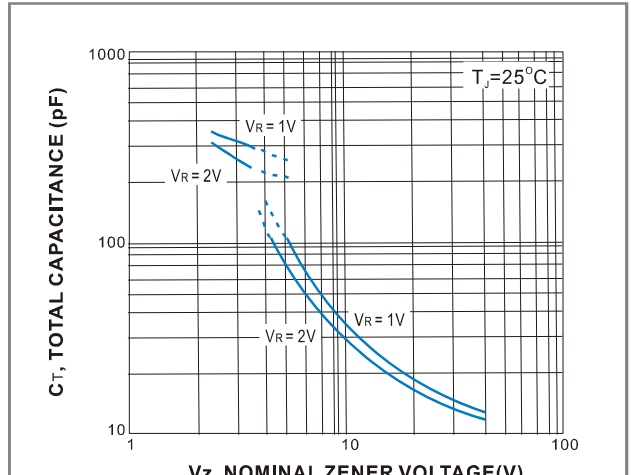
**Fig.1 POWER DERATING CURVE**



**Fig.2 ZENER BREAKDOWN CHARACTERISTICS**



**Fig.3 ZENER BREAKDOWN CHARACTERISTICS**

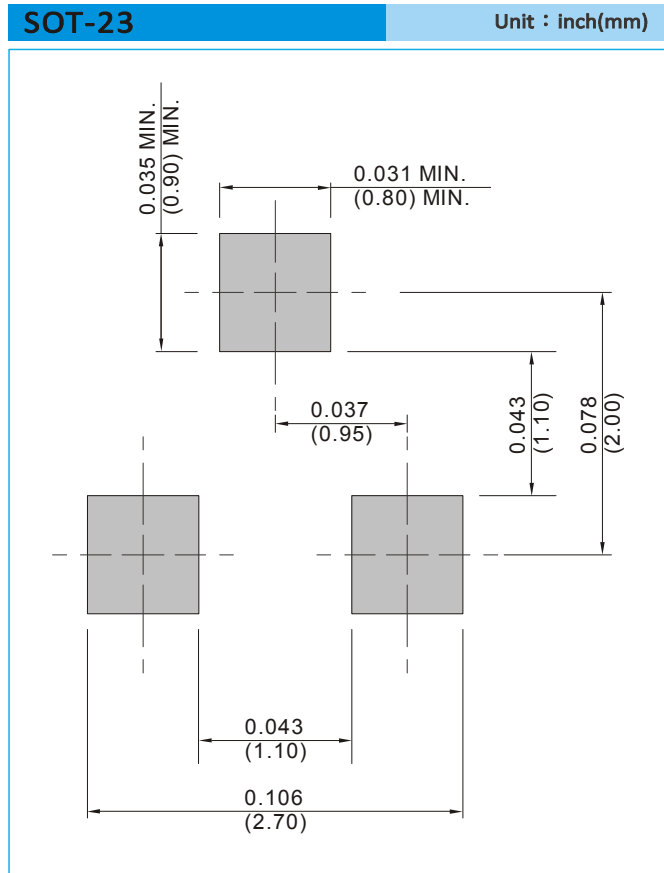


**Fig.4 TOTAL CAPACITANCE VS NOMINAL ZENER VOLTAGE**



# AZ23C2V4-AU SERIES

## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 3K per 7" plastic Reel



# AZ23C2V4-AU SERIES

## Part No\_packing code\_Version

AZ23C2V4-AU\_R1\_000A1

AZ23C2V4-AU\_R2\_000A1

For example :

**RB500V-40** **R2** **00001**



| Packing Code <b>XX</b>               |                      |                                  |                      | Version Code <b>XXXXX</b> |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>nd</sup> Code | HF or RoHS                | 1 <sup>st</sup> Code | 2 <sup>nd</sup> ~5 <sup>th</sup> Code |
| Tape and Ammunition Box (T/B)        | A                    | N/A                              | 0                    | HF                        | 0                    | serial number                         |
| Tape and Reel (T/R)                  | R                    | 7"                               | 1                    | RoHS                      | 1                    | serial number                         |
| Bulk Packing (B/P)                   | B                    | 13"                              | 2                    |                           |                      |                                       |
| Tube Packing (T/P)                   | T                    | 26mm                             | X                    |                           |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | S                    | 52mm                             | Y                    |                           |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | L                    | PANASERT T/B CATHODE UP (PBCU)   | U                    |                           |                      |                                       |
| FORMING                              | F                    | PANASERT T/B CATHODE DOWN (PBCD) | D                    |                           |                      |                                       |



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