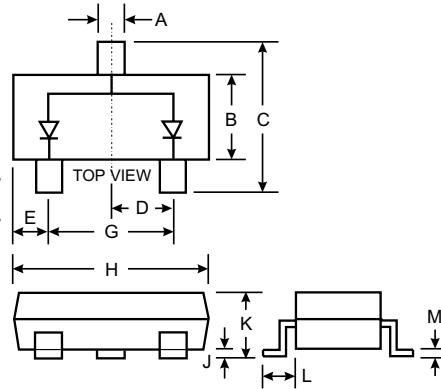


Features

- Dual Zeners in Common Anode Configuration
- 300 mW Power Dissipation Rating
- Ideally Suited for Automatic Insertion
- ΔV_Z For Both Diodes in One Case is $\leq 5\%$
- Common Cathode Style Available See DZ Series

Mechanical Data

- Case: SOT-23, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Marking: Marking Code (See Table on Page 2)
- Approx. Weight: 0.008 grams
- Mounting Position: Any



| SOT-23 | | |
|----------------------|-------|-------|
| Dim | Min | Max |
| A | 0.37 | 0.51 |
| B | 1.19 | 1.40 |
| C | 2.10 | 2.50 |
| D | 0.89 | 1.05 |
| E | 0.45 | 0.61 |
| G | 1.78 | 2.05 |
| H | 2.65 | 3.05 |
| J | 0.013 | 0.15 |
| K | 0.89 | 1.10 |
| L | 0.45 | 0.61 |
| M | 0.076 | 0.178 |
| All Dimensions in mm | | |

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

| Characteristic | Symbol | Value | Unit |
|--|-----------------|-------------|------------------|
| Power Dissipation (Note 1) | P_d | 300 | mW |
| Thermal Resistance, Junction to Ambient Air (Note 1) | $R_{\theta JA}$ | 420 | K/W |
| Operating and Storage Temperature Range | T_j, T_{STG} | -65 to +150 | $^\circ\text{C}$ |

- Note:
1. Device on fiberglass substrate.
 2. Tested with I_{ZT} current pulses. Pulse width = 5.0ms.

Electrical Characteristics @T_A = 25°C unless otherwise specified

| Type Number | Marking Code | Zener Voltage Range (Note 2) | Maximum Zener Impedance | | Typical Temperature Coefficient | Min. Reverse Voltage @ I _R = 0.1μA |
|-------------|--------------|------------------------------|---|---|---------------------------------|--|
| | | @ I _{ZT} = 5.0mA | Z _{ZT} @ I _{ZT} = 5.0mA | Z _{ZK} @ I _{ZK} = 1.0mA | | |
| | | V _Z (Volts) | Ohms | Ohms | T _C (%/°C) | V _R (Volts) |
| AZ23C2V7 | D1/KD1 | 2.5-2.9 | 83 | 500 | -0.065 | — |
| AZ23C3V0 | D2/KD2 | 2.8-3.2 | 95 | 500 | -0.060 | — |
| AZ23C3V3 | D3/KD3 | 3.1-3.5 | 95 | 500 | -0.055 | — |
| AZ23C3V6 | D4/KD4 | 3.4-3.8 | 95 | 500 | -0.055 | — |
| AZ23C3V9 | D5/KD5 | 3.7-4.1 | 95 | 500 | -0.050 | — |
| AZ23C4V3 | D6/KD6 | 4.0-4.6 | 95 | 500 | -0.035 | — |
| AZ23C4V7 | D7/KD7 | 4.4-5.0 | 78 | 500 | -0.015 | — |
| AZ23C5V1 | D8/KD8 | 4.8-5.4 | 60 | 480 | +0.005 | 0.8 |
| AZ23C5V6 | D9/KD9 | 5.2-6.0 | 40 | 400 | +0.020 | 1.0 |
| AZ23C6V2 | D10/KDA | 5.8-6.6 | 10 | 200 | +0.030 | 2.0 |
| AZ23C6V8 | D11/KDB | 6.4-7.2 | 8.0 | 150 | +0.045 | 3.0 |
| AZ23C7V5 | D12/KDC | 7.0-7.9 | 7.0 | 50 | +0.050 | 5.0 |
| AZ23C8V2 | D13/KDD | 7.7-8.7 | 7.0 | 50 | +0.055 | 6.0 |
| AZ23C9V1 | D14/KDE | 8.5-9.6 | 10 | 50 | +0.065 | 7.0 |
| AZ23C10 | D15/KDF | 9.4-10.6 | 15 | 70 | +0.065 | 7.5 |
| AZ23C11 | D16/KDG | 10.4-11.6 | 20 | 70 | +0.070 | 8.5 |
| AZ23C12 | D17/KDH | 11.4-12.7 | 20 | 90 | +0.075 | 9.0 |
| AZ23C13 | D18/KDI | 12.4-14.1 | 25 | 110 | +0.080 | 10.0 |
| AZ23C15 | D19/KDJ | 13.8-15.6 | 30 | 110 | +0.080 | 11.0 |
| AZ23C16 | D20/KDK | 15.3-17.1 | 40 | 170 | +0.090 | 12.0 |
| AZ23C18 | D21/KDL | 16.8-19.1 | 50 | 170 | +0.090 | 14.0 |
| AZ23C20 | D22/KDM | 18.8-21.2 | 50 | 220 | +0.090 | 15.0 |
| AZ23C22 | D23/KDN | 20.8-23.3 | 55 | 220 | +0.090 | 17.0 |
| AZ23C24 | D24/KDO | 22.8-25.6 | 80 | 220 | +0.090 | 18.0 |
| AZ23C27 | D25/KDP | 25.1-28.9 | 80 | 250 | +0.090 | 20.0 |
| AZ23C30 | D26/KDQ | 28-32 | 80 | 250 | +0.090 | 22.5 |
| AZ23C33 | D27/KDR | 31-35 | 80 | 250 | +0.090 | 25.0 |
| AZ23C36 | D28/KDS | 34-38 | 90 | 250 | +0.090 | 27.0 |
| AZ23C39 | D29/KDT | 37-41 | 90 | 300 | +0.110 | 29.0 |
| AZ23C43 | D30 | 40-46 | 100 | 700 | +0.110 | 32.0 |
| AZ23C47 | D31 | 44-50 | 100 | 750 | +0.110 | 35.0 |
| AZ23C51 | D32 | 48-54 | 100 | 750 | +0.110 | 38.0 |

Note: 1. Device on fiberglass substrate.
2. Tested with I_{ZT} current pulses. Pulse width = 5.0ms.