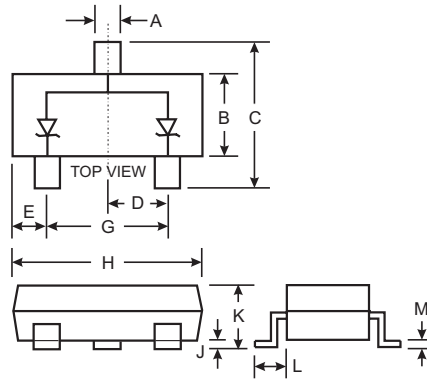


Features

- Nominal Zener Voltages: 5.6V, 6.8V, 10V, 18V
- Ultra-Small Surface Mount Package
- Ideal For Transient Suppression

Mechanical Data

- Case: SOT-323, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Orientation: See Diagram
- Marking: See Table Below
- Weight: 0.006 grams (approx.)



| SOT-323 | | |
|----------------------|--------------|------|
| Dim | Min | Max |
| A | 0.30 | 0.40 |
| B | 1.15 | 1.35 |
| C | 2.00 | 2.20 |
| D | 0.65 Nominal | |
| E | 0.30 | 0.40 |
| G | 1.20 | 1.40 |
| H | 1.80 | 2.20 |
| J | 0.0 | 0.10 |
| K | 0.90 | 1.00 |
| L | 0.25 | 0.40 |
| M | 0.10 | 0.25 |
| All Dimensions in mm | | |

Maximum Ratings @ T_A = 25°C unless otherwise specified

| Characteristic | Symbol | Value | Unit |
|--|-----------------------------------|-------------|------|
| Forward Voltage @ I _F = 10mA | V _F | 0.9 | V |
| Power Dissipation (Note 1) | P _d | 200 | mW |
| Thermal Resistance, Junction to Ambient Air (Note 1) | R _{θJA} | 625 | °C/W |
| Operating and Storage Temperature Range | T _J , T _{STG} | -65 to +150 | °C |

| Type Number | Marking Code | Zener Voltage Range (Note 2) | | | Maximum Zener Impedance | | | | Maximum Reverse Current | | Temperature Coefficient of Zener Voltage @ I _{ZT} = 5mA | |
|-------------|--------------|----------------------------------|---------|---------|-----------------------------------|-----|-----------------------------------|-----|---------------------------------|------|--|------|
| | | V _Z @ I _{ZT} | | | Z _{ZT} @ I _{ZT} | | Z _{ZK} @ I _{ZK} | | I _R @ V _R | | T _C (mV/°C) | |
| | | Nom (V) | Min (V) | Max (V) | Ω | mA | Ω | mA | μA | V | Min | Max |
| AZ23C5V6W | KD9 | 5.6 | 5.32 | 5.88 | 40 | 5.0 | 400 | 1.0 | 1.0 | 2.0 | -2.0 | 2.5 |
| AZ23C6V8W | KDB | 6.8 | 6.47 | 7.14 | 15 | 5.0 | 80 | 1.0 | 2.0 | 4.0 | 1.2 | 4.5 |
| AZ23C10W | KDF | 10 | 9.4 | 10.6 | 15 | 5.0 | 70 | 1.0 | 0.2 | 7.0 | 4.5 | 8.0 |
| AZ23C18W | KDL | 18 | 16.8 | 19.1 | 50 | 5.0 | 170 | 1.0 | 0.1 | 12.6 | 12.4 | 16.0 |

- Notes:
- Valid provided that device terminals are kept at ambient temperature.
 - V_Z measured @ I_{ZT} using a short duration pulse test so as not to induce significant self-heating.