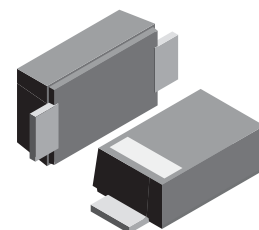


**VOLTAGE RANGE: 2.0 - 36V**  
**POWER: 0.2Watts**

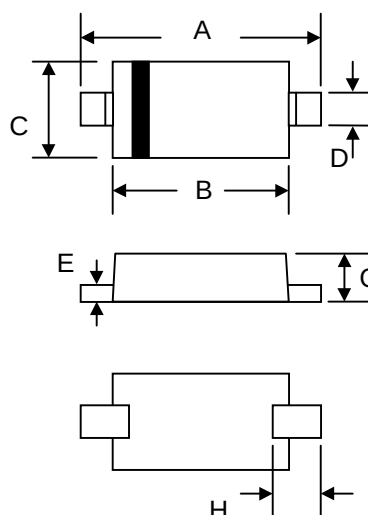
### Features

- Complete voltage range 2.0 to 36 volts
- Silicon planar power Zener diodes
- Low Zener impedance and low leakage current
- Popular in Asian designs
- Compact surface mount device
- Ideal for auto mated mounting



### Mechanical Data

- Case: SOD-323, Plastic
- Case Material - UL Flammability Rating Classification 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Solderable per MIL-STD-202, Method 208
- Weight: 0.004 grams (approx.)



| SOD-323              |      |      |
|----------------------|------|------|
| Dim                  | Min  | Max  |
| A                    | 2.30 | 2.70 |
| B                    | 1.75 | 1.95 |
| C                    | 1.15 | 1.35 |
| D                    | 0.25 | 0.35 |
| E                    | 0.05 | 0.15 |
| G                    | 0.70 | 0.95 |
| H                    | 0.30 | —    |
| All Dimensions in mm |      |      |

### Maximum Ratings and Thermal Characteristics (Ta 25 °C unless otherwise noted)

| Parameter                                     | Symbol          | Value              | Unit |
|-----------------------------------------------|-----------------|--------------------|------|
| Test current I                                | $I_{ZM}$        | 5.0                | mA   |
| Power Dissipation at $T_{amp} = 25\text{ °C}$ | $P_{tot}$       | 200 <sup>(1)</sup> | Mw   |
| Thermal Resistance<br>Junction to Ambient Air | $R_{\theta JA}$ | 650 <sup>(2)</sup> | °C/W |
| Junction Temperature                          | $T_J$           | 150                | °C   |
| Storage Temperature Range                     | $T_S$           | -65 to + 150       | °C   |

#### Notes:

- (1) Device on fiberglass substrate
- (2) Valid provided that electrodes are ambient temperature

**ELECTRICAL CHARACTERISTICS** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified)

| PART NUMBER | ZENER VOLTAGE RANGE |      |       | TEST CURRENT |           | REVERSE CURRENT |     | DYNAMIC RESISTANCE |                       |
|-------------|---------------------|------|-------|--------------|-----------|-----------------|-----|--------------------|-----------------------|
|             | $V_Z$ at $I_{ZT1}$  |      |       | $I_{ZT1}$    | $I_{ZT2}$ | $I_R$ at $V_R$  |     | $Z_Z$ at $I_{ZT1}$ | $Z_{ZK}$ at $I_{ZT2}$ |
|             | V                   |      |       | mA           |           | $\mu\text{A}$   | V   | $\Omega$           |                       |
|             | MIN.                | NOM. | MAX.  |              |           | MAX.            |     | MAX.               | MAX.                  |
| GDZ2V0B     | 2.02                | 2.0  | 2.2   | 5            | 0.5       | 120             | 0.5 | 100                | 1000                  |
| GDZ2V2B     | 2.22                | 2.2  | 2.41  | 5            | 0.5       | 120             | 0.7 | 100                | 1000                  |
| GDZ2V4B     | 2.43                | 2.4  | 2.63  | 5            | 0.5       | 120             | 1   | 100                | 1000                  |
| GDZ2V7B     | 2.69                | 2.7  | 2.91  | 5            | 0.5       | 100             | 1   | 110                | 1000                  |
| GDZ3V0B     | 3.01                | 3.0  | 3.22  | 5            | 0.5       | 50              | 1   | 120                | 1000                  |
| GDZ3V3B     | 3.32                | 3.3  | 3.53  | 5            | 0.5       | 20              | 1   | 120                | 1000                  |
| GDZ3V6B     | 3.6                 | 3.6  | 3.845 | 5            | 1         | 10              | 1   | 100                | 1000                  |
| GDZ3V9B     | 3.89                | 3.9  | 4.16  | 5            | 1         | 5               | 1   | 100                | 1000                  |
| GDZ4V3B     | 4.17                | 4.3  | 4.43  | 5            | 1         | 5               | 1   | 100                | 1000                  |
| GDZ4V7B     | 4.55                | 4.7  | 4.75  | 5            | 0.5       | 2               | 1   | 100                | 800                   |
| GDZ5V1B     | 4.98                | 5.1  | 5.2   | 5            | 0.5       | 2               | 1   | 80                 | 500                   |
| GDZ5V6B     | 5.49                | 5.6  | 5.73  | 5            | 0.5       | 1               | 2.5 | 60                 | 200                   |
| GDZ6V2B     | 6.06                | 6.2  | 6.33  | 5            | 0.5       | 1               | 3   | 60                 | 100                   |
| GDZ6V8B     | 6.65                | 6.8  | 6.93  | 5            | 0.5       | 0.5             | 3.5 | 40                 | 60                    |
| GDZ7V5B     | 7.28                | 7.5  | 7.6   | 5            | 0.5       | 0.5             | 4   | 30                 | 60                    |
| GDZ8V2B     | 8.02                | 8.2  | 8.36  | 5            | 0.5       | 0.5             | 5   | 30                 | 60                    |
| GDZ9V1B     | 8.85                | 9.1  | 9.23  | 5            | 0.5       | 0.5             | 6   | 30                 | 60                    |
| GDZ10B      | 9.77                | 10   | 10.21 | 5            | 0.5       | 0.1             | 7   | 30                 | 60                    |
| GDZ11B      | 10.76               | 11   | 11.22 | 5            | 0.5       | 0.1             | 8   | 30                 | 60                    |
| GDZ12B      | 11.74               | 12   | 12.24 | 5            | 0.5       | 0.1             | 9   | 30                 | 80                    |
| GDZ13B      | 12.91               | 13   | 13.49 | 5            | 0.5       | 0.1             | 10  | 37                 | 80                    |
| GDZ15B      | 14.34               | 15   | 14.98 | 5            | 0.5       | 0.1             | 11  | 42                 | 80                    |
| GDZ16B      | 15.85               | 16   | 16.51 | 5            | 0.5       | 0.1             | 12  | 50                 | 80                    |
| GDZ18B      | 17.56               | 18   | 18.35 | 5            | 0.5       | 0.1             | 13  | 65                 | 80                    |
| GDZ20B      | 19.52               | 20   | 20.39 | 5            | 0.5       | 0.1             | 15  | 85                 | 100                   |
| GDZ22B      | 21.54               | 22   | 22.47 | 5            | 0.5       | 0.1             | 17  | 100                | 100                   |
| GDZ24B      | 23.72               | 24   | 24.78 | 5            | 0.5       | 0.1             | 19  | 120                | 120                   |
| GDZ27B      | 26.19               | 27   | 27.53 | 5            | 0.5       | 0.1             | 21  | 150                | 150                   |
| GDZ30B      | 29.19               | 30   | 30.69 | 5            | 0.5       | 0.1             | 23  | 200                | 200                   |
| GDZ33B      | 32.15               | 33   | 33.79 | 5            | 0.5       | 0.1             | 25  | 250                | 250                   |
| GDZ36B      | 35.07               | 36   | 36.87 | 5            | 0.5       | 0.1             | 27  | 300                | 300                   |

**Notes**

- The Zener voltage  $V_Z$  is measured 40 ms after power is supplied
- The operating resistance ( $Z_Z$ ,  $Z_{ZK}$ ) are measured by superimposing a 1 kHz alternating current on the regulated current ( $I_Z$ ).

单击下面可查看定价，库存，交付和生命周期等信息

[>>SUNMATE\(森美特\)](#)