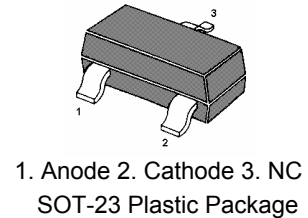
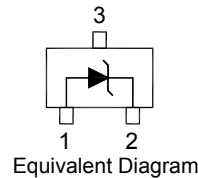


Silicon Planar Zener Diodes

Features

- Package designed for optimal automated board assembly
- Small package size for high density applications



Description

The pin-3 of this device can not be applied to circuit.

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|---|-----------------|---------------|--------------------|
| Power Dissipation | P_D | 350 | mW |
| Thermal Resistance, Junction to Ambient | $R_{\theta JA}$ | 357 | $^\circ\text{C/W}$ |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | - 55 to + 150 | $^\circ\text{C}$ |

Electrical Characteristics $T_a = 25\text{ }^\circ\text{C}$ ($V_F < 1.8\text{ V}$ at $I_F = 10\text{ mA}$)

| Type | Marking Code | Zener Voltage Range ¹⁾ | | | Dynamic Resistance | | Reverse Current | |
|------------|--------------|-----------------------------------|----------|-------------|--------------------|-------------|------------------------|--------------|
| | | V_{ZT} | | at I_{ZT} | Z_{ZT} | at I_{ZT} | I_R | at V_R |
| | | Min. (V) | Max. (V) | (mA) | Max. (Ω) | (mA) | Max. (μA) | at V_R (V) |
| BZX84C91DS | 91V | 85 | 96 | 1 | 450 | 1 | 0.1 | 68 |

¹⁾ Tested with pulses $t_p = 20\text{ ms}$.



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SOT-23

BZX84C91DS

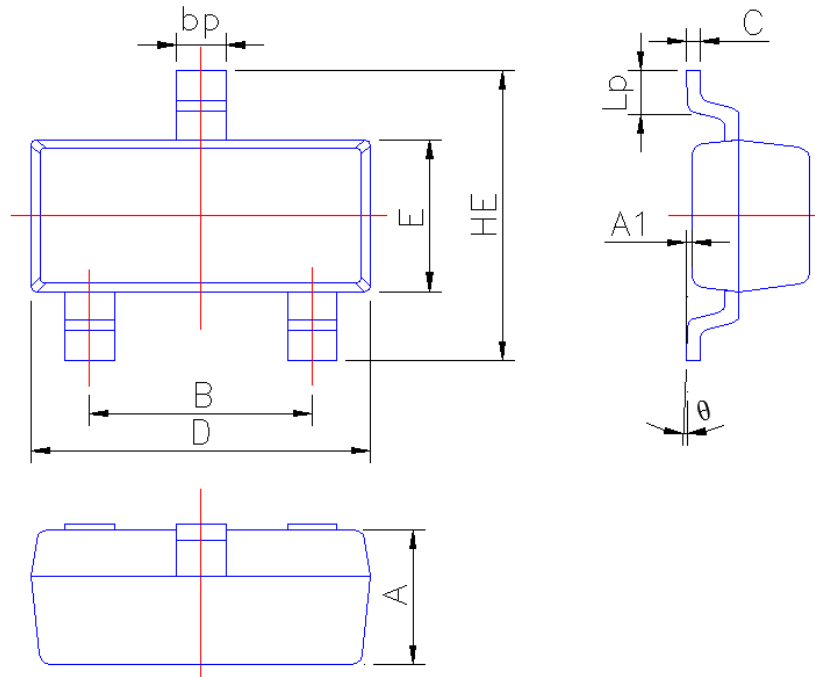


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PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



| Symbol | Dimension in Millimeters | |
|--------|--------------------------|-------|
| | Min | Max |
| A | 0.90 | 1.10 |
| A1 | 0.013 | 0.100 |
| B | 1.80 | 2.00 |
| bp | 0.35 | 0.50 |
| C | 0.09 | 0.150 |
| D | 2.80 | 3.00 |
| E | 1.20 | 1.40 |
| HE | 2.20 | 2.80 |
| Lp | 0.20 | 0.50 |
| theta | 0° | 5° |