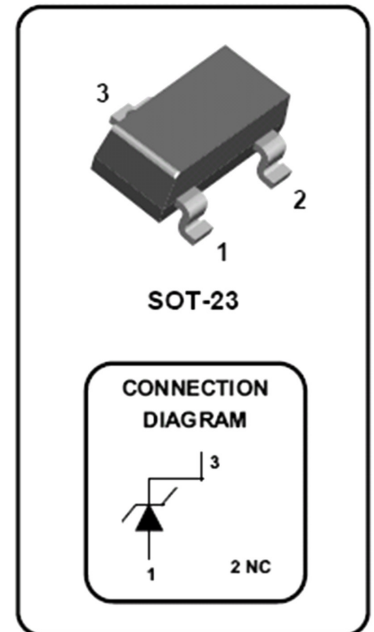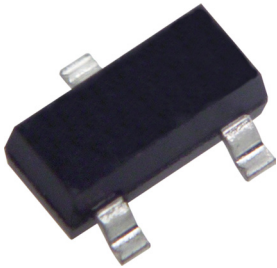# Surface Mount
## Zener Diode

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## Features:

- Planar Die Construction
- 350mW Power Dissipation
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes

## Application:

350mW Surface mount zener diode



SOT-23

CONNECTION DIAGRAM

3

1    2 NC

## Maximum Rating @ $T_A$ = 25°C unless otherwise specified

| Characteristic | Symbol | Value | Unit |
|---|---|---|---|
| Forward voltage @ $I_F$ = 10mA | $V_F$ | 0.9 | V |
| Power dissipation | $P_D$ | 350 | mW |
| Thermal resistance, junction to ambient air | $R_{\theta jA}$ | 357 | °C/W |
| Operating and storage temperature range | $T_j$, $T_{stg}$ | -65 to +150 | °C |

**Note :** Valid provided that device terminals are kept at ambient temperature.
Tested with pulses, $T_P$ ≤ 1ms.

## Electrical Characteristics @ $T_A$ = 25°C unless otherwise specified

| Type Number | Marking Code | Zener Voltage Range | | | | Maximum Zener Impedance | | Maximum Reverse Leakage Current | |
|---|---|---|---|---|---|---|---|---|---|
| | | $V_z @ I_{ZT}$ | | | $I_{ZT}$ | $Z_{ZT} @ I_{ZT}$ | $Z_{ZK} @ I_{ZK}$ = 0.25mA | $I_R$ | $@V_R$ |
| | | Nom(V) | Min(V) | Max(V) | (mA) | (Ω) | | (µA) | (V) |
| MMBZ5232B | KE2 | 5.6 | 5.32 | 5.88 | 20 | 11 | 1,600 | 5 | 3 |

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# Surface Mount
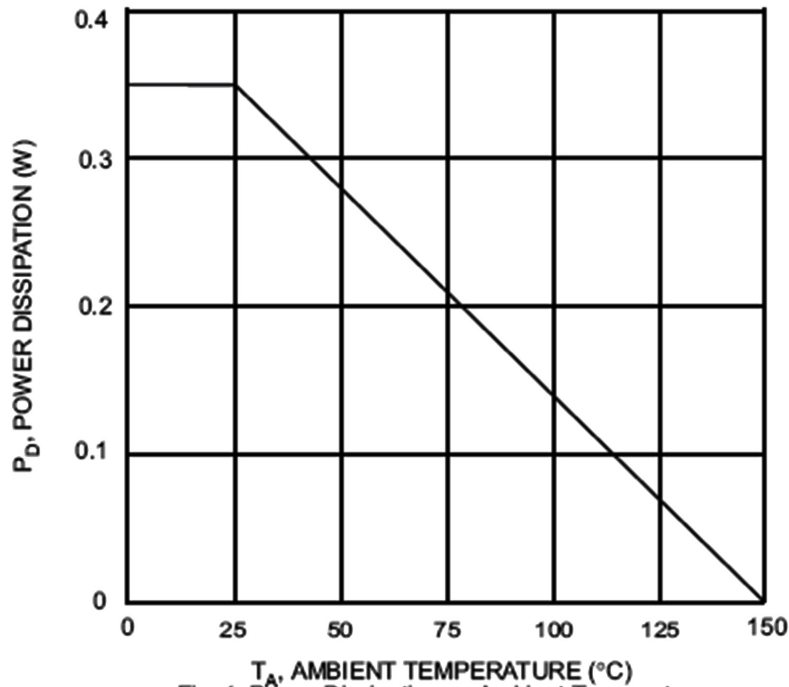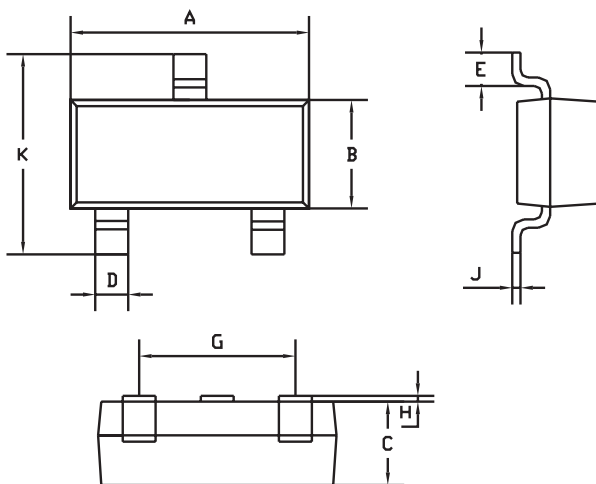## Zener Diode

## Typical Characteristics @ T$_A$ = 25°C unless otherwise specified



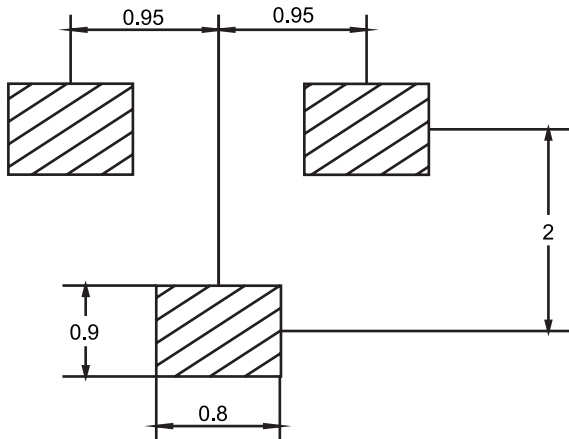Fig. 1 Power Dissipation vs Ambient Temperature

## Package Outline

Plastic surface mounted package



| SOT-23 | | |
|---|---|---|
| Dim | Min | Max |
| A | 2.85 | 2.95 |
| B | 1.25 | 1.35 |
| C | 1 Typical | |
| D | 0.37 | 0.43 |
| E | 0.35 | 0.48 |
| G | 1.85 | 1.95 |
| H | 0.02 | 0.1 |
| J | 0.1 Typical | |
| K | 2.35 | 2.45 |
| All Dimensions in mm | | |

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# Surface Mount
## Zener Diode

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## Soldering Footprint



Dimensions : Millimetres

## Package Information

| Device | Package | Shipping |
|---|---|---|
| MMBZ5232B-7-F | SOT-23 | 3,000/Tape & Reel |

## Part Number Table

| Description | Part Number |
|---|---|
| 350mW Surface Mount Zener Diode | MMBZ5232B-7-F |

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