

Surface Mount Zener Diode



SOD-323

Features:

- Planar Die Construction
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes

Applications:

- Zener diode
- Ultra-small surface mount package

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 | 200 | mW |
| Thermal resistance, junction to ambient air | R _{θJA} | 625 | °C/W |
| Junction temperature | T _J | 150 | °C |
| Storage temperature range | T _{stg} | -65 to +150 | °C |

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

Electrical Characteristics @ T_A = 25°C unless otherwise specified

| Type Number | Marking Code | Zener Voltage Range | | | Test Current | 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 |
| | | Nom(V) | Min(V) | Max(V) | mA | Ω | | μA | V |
| MMSZ5245B | H5 | 15 | 14.25 | 15.75 | 8.5 | 16 | 600 | 0.1 | 11 |



Surface Mount Zener Diode



Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

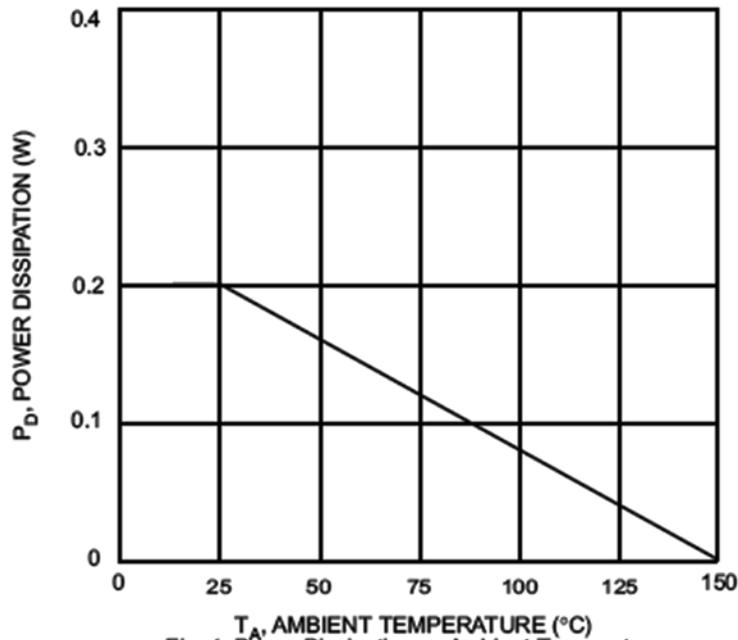
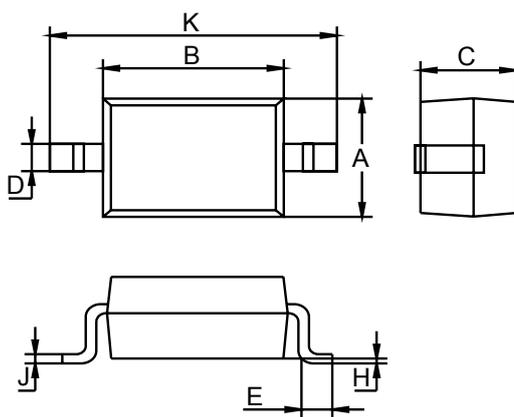


Fig. 1 Power Dissipation vs Ambient Temperature

Package Outline

Plastic surface mounted package



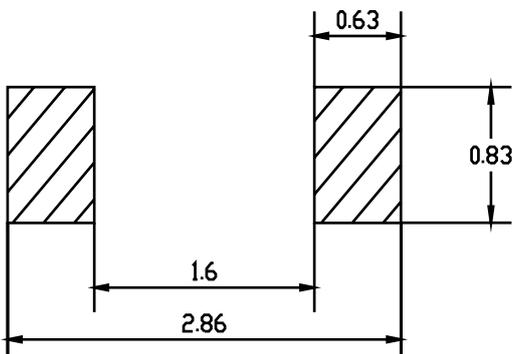
| SOD-323 | | |
|----------------------|-------------|-------|
| Dim | Min | Max |
| A | 1.275 | 1.325 |
| B | 1.675 | 1.725 |
| C | 0.9 Typical | |
| D | 0.25 | 0.35 |
| E | 0.27 | 0.37 |
| H | 0.02 | 0.1 |
| J | 0.1 Typical | |
| K | 2.6 | 2.7 |
| All Dimensions in mm | | |



Surface Mount Zener Diode



Soldering Footprint



Dimensions : Millimetres

Package Information

| Device | Package | Shipping |
|----------------|---------|-------------------|
| MMSZ5245BS-7-F | SOD-323 | 3,000/Tape & Reel |

Part Number Table

| Description | Part Number |
|---------------------------|----------------|
| Surface Mount Zener Diode | MMSZ5245BS-7-F |

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com
www.farnell.com
www.newark.com

