

## Product Overview

### MMBZ5V6A: ESD / Surge Protector

For complete documentation, see the data sheet.

These dual monolithic silicon Zener diodes are designed for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment and other applications. Their dual junction common anode design protects two separate lines using only one package. These devices are ideal for situations where board space is at a premium.

### Features

- SOT-23 Package Allows Either Two Separate Unidirectional Configurations or a Single Bidirectional Configuration
- Working Peak Reverse Voltage Range - 3 V to 26 V
- Standard Zener Breakdown Voltage Range - 5.6 V to 33 V
- Peak Power - 24 or 40 Watts @ 1.0 ms (Unidirectional)
- ESD Rating of Class N (exceeding 16 kV) per the Human Body Model
- Maximum Clamping Voltage @ Peak Pulse Current
- Low Leakage < 5.0  $\mu$  A
- Flammability Rating UL 94V-O Mechanical Characteristics:
- CASE: Void-free, transfer-molded, thermosetting plastic case
- FINISH: Corrosion resistant finish, easily solderable

For more features, see the data sheet

### Part Electrical Specifications

| Product        | Compliance    | Status | V <sub>Z</sub> Typ (V) | P Max (W) | Package Type |
|----------------|---------------|--------|------------------------|-----------|--------------|
| MMBZ5V6ALT1G   | Pb-free       | Active | 5.6                    | 0.225     | SOT-23-3     |
|                | Halide free   |        |                        |           |              |
| MMBZ5V6ALT3G   | Pb-free       | Active | 5.6                    | 0.225     | SOT-23-3     |
|                | Halide free   |        |                        |           |              |
| SZMMBZ5V6ALT1G | AEC Qualified | Active | 5.6                    | 0.225     | SOT-23-3     |
|                | PPAP Capable  |        |                        |           |              |
|                | Pb-free       |        |                        |           |              |
|                | Halide free   |        |                        |           |              |
| SZMMBZ5V6ALT3G | AEC Qualified | Active | 5.6                    | 0.225     | SOT-23-3     |
|                | PPAP Capable  |        |                        |           |              |
|                | Pb-free       |        |                        |           |              |
|                | Halide free   |        |                        |           |              |

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