

Product Overview

MMSZ52 E-SERIES: 225 W, Zener Diode Voltage Regulator

For complete documentation, see the data sheet.

Three complete series of Zener diodes are offered in the convenient, surface mount plastic SOD123 package.

Features

- Wide Zener Reverse Voltage Range – 2.4 V to 110 V
- 500 mW Rating on FR-4 or FR-5 Board
- Package Designed for Optimal Automated Board Assembly
- Small Package Size for High Density Applications
- ESD Rating of Class 3 (>16 KV) per Human Body Model
- Pb-Free Packages are Available
- AEC-Q101 Qualified and PPAP Capable
- SZ Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements

Applications

- Voltage Regulation
- Waveform Clipping
- MOSFET Gate Protection

Benefits

- Wide Range of Zener Breakdown Voltages

End Products

- General Usage Device: Suitable for many different end products

Part Electrical Specifications

| Product | Pricing (\$/Unit) | Compliance | Status | V _Z Typ (V) | P Max (W) | Package Type |
|--------------|-------------------|--|--------|------------------------|-----------|--------------|
| MMSZ5235ET1G | 0.0624 | Pb-free Halide free non AEC-Q and PPAP | Active | 6.8 | 0.5 | SOD-123 |
| MMSZ5237ET1G | 0.0624 | Pb-free Halide free non AEC-Q and PPAP | Active | 8.2 | 0.5 | SOD-123 |
| MMSZ5242ET1G | 0.0624 | Pb-free Halide free non AEC-Q and PPAP | Active | 12 | 0.5 | SOD-123 |
| MMSZ5244ET1G | 0.0655 | Pb-free Halide free non AEC-Q and PPAP | Active | 14 | 0.5 | SOD-123 |
| MMSZ5245ET1G | 0.0624 | Pb-free Halide free non AEC-Q and PPAP | Active | 15 | 0.5 | SOD-123 |
| MMSZ5246ET1G | 0.0381 | Pb-free Halide free non AEC-Q and PPAP | Active | 16 | 0.5 | SOD-123 |
| MMSZ5252ET1G | 0.0624 | Pb-free Halide free non AEC-Q and PPAP | Active | 24 | 0.5 | SOD-123 |
| MMSZ5254ET1G | 0.0624 | Pb-free Halide free non AEC-Q and PPAP | Active | 27 | 0.5 | SOD-123 |
| MMSZ5255ET1G | 0.0624 | Pb-free Halide free non AEC-Q and PPAP | Active | 28 | 0.5 | SOD-123 |
| MMSZ5256ET1G | 0.0624 | Pb-free Halide free non AEC-Q and PPAP | Active | 30 | 0.5 | SOD-123 |
| MMSZ5257ET1G | 0.0624 | Pb-free Halide free non AEC-Q and PPAP | Active | 33 | 0.5 | SOD-123 |
| MMSZ5258ET1G | | Pb-free Halide free non AEC-Q and PPAP | Active | 36 | 0.5 | SOD-123 |

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|----------------|--------|---|--------|-----|-----|---------|
| SZMMSZ5232ET1G | 0.0324 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 5.6 | 0.5 | SOD-123 |
| SZMMSZ5235ET1G | 0.0721 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 6.8 | 0.5 | SOD-123 |
| SZMMSZ5237ET1G | 0.0687 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 8.2 | 0.5 | SOD-123 |
| SZMMSZ5242ET1G | 0.07 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 12 | 0.5 | SOD-123 |
| SZMMSZ5244ET1G | 0.0735 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 14 | 0.5 | SOD-123 |
| SZMMSZ5245ET1G | 0.086 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 15 | 0.5 | SOD-123 |
| SZMMSZ5246ET1G | 0.0721 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 16 | 0.5 | SOD-123 |
| SZMMSZ5248ET1G | 0.0324 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 18 | 0.5 | SOD-123 |
| SZMMSZ5250ET1G | 0.0735 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 20 | 0.5 | SOD-123 |
| SZMMSZ5252ET1G | 0.07 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 24 | 0.5 | SOD-123 |
| SZMMSZ5252ET3G | 0.0721 | AEC Qualified PPAP Capable Pb-free Halide free | Active | 24 | 0.5 | SOD-123 |

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|----------------|--------|------------------|--------|----|-----|---------|
| SZMMSZ5253ET1G | 0.034 | AEC Qualified | Active | 25 | 0.5 | SOD-123 |
| | | PPAP Capable | | | | |
| | | Pb-free | | | | |
| | | Halide free | | | | |
| SZMMSZ5254ET1G | 0.0721 | AEC Qualified | Active | 27 | 0.5 | SOD-123 |
| | | PPAP Capable | | | | |
| | | Pb-free | | | | |
| | | Halide free | | | | |
| SZMMSZ5256ET1G | 0.0721 | AEC Qualified | Active | 30 | 0.5 | SOD-123 |
| | | PPAP Capable | | | | |
| | | Pb-free | | | | |
| | | Halide free | | | | |
| SZMMSZ5257ET1G | 0.0721 | AEC Qualified | Active | 33 | 0.5 | SOD-123 |
| | | PPAP Capable | | | | |
| | | Pb-free | | | | |
| | | Halide free | | | | |
| SZMMSZ5258ET1G | 0.0324 | AEC Qualified | Active | 36 | 0.5 | SOD-123 |
| | | PPAP Capable | | | | |
| | | Pb-free | | | | |
| | | Halide free | | | | |

For more information please contact your local sales support at www.onsemi.com.

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