

Product Overview

MMSZ: 500 mW; 5% 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 SOD-123 package. These devices provide a convenient alternative to the leadless 34-package style.

Features

- Wide Zener Reverse Voltage Range - 2.4 V to 56 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 (exceeding 16 kV) per the Human Body Model
- Mechanical Characteristics:
- CASE: Void-free, transfer-molded, thermosetting plastic case
- FINISH: Corrosion resistant finish, easily solderable
- MAXIMUM CASE TEMPERATURE FOR SOLDERING PURPOSES: 260°C for 10 Seconds
- POLARITY: Cathode indicated by polarity band
- FLAMMABILITY RATING: UL94 V-0

For more features, see the data sheet

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
MMSZ10T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	10	0.5	SOD-123
MMSZ10T3G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	10	0.5	SOD-123
MMSZ11T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	11	0.5	SOD-123
MMSZ12T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	12	0.5	SOD-123
MMSZ13T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	13	0.5	SOD-123
MMSZ15T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	15	0.5	SOD-123
MMSZ16T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	16	0.5	SOD-123
MMSZ18T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	18	0.5	SOD-123
MMSZ18T3G	0.0495	Pb-free Halide free non AEC-Q and PPAP	Active	18	0.5	SOD-123
MMSZ20T1G	0.0259	Pb-free Halide free non AEC-Q and PPAP	Active	20	0.5	SOD-123
MMSZ22T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	22	0.5	SOD-123
MMSZ24T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	24	0.5	SOD-123

MMSZ27T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	27	0.5	SOD-123
MMSZ27T3G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	27	0.5	SOD-123
MMSZ2V4T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	2.4	0.5	SOD-123
MMSZ2V7T1G	0.0247	Pb-free Halide free non AEC-Q and PPAP	Active	2.7	0.5	SOD-123
MMSZ30T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	30	0.5	SOD-123
MMSZ33T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	33	0.5	SOD-123
MMSZ36T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	36	0.5	SOD-123
MMSZ39T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	39	0.5	SOD-123
MMSZ3V0T1G	0.0259	Pb-free Halide free non AEC-Q and PPAP	Active	3	0.5	SOD-123
MMSZ3V3T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	3.3	0.5	SOD-123
MMSZ3V6T1G	0.0259	Pb-free Halide free non AEC-Q and PPAP	Active	3.6	0.5	SOD-123
MMSZ3V9T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	3.9	0.5	SOD-123
MMSZ43T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	43	0.5	SOD-123

MMSZ47T1G	0.0439	Pb-free Halide free non AEC-Q and PPAP	Active	47	0.5	SOD-123
MMSZ47T3G	0.0399	Pb-free Halide free non AEC-Q and PPAP	Active	47	0.5	SOD-123
MMSZ4V3T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	4.3	0.5	SOD-123
MMSZ4V7T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	4.7	0.5	SOD-123
MMSZ51T1G	0.0259	Pb-free Halide free non AEC-Q and PPAP	Active	51	0.5	SOD-123
MMSZ56T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	56	0.5	SOD-123
MMSZ56T3G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	56	0.5	SOD-123
MMSZ5V1T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	5.1	0.5	SOD-123
MMSZ5V6T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	5.6	0.5	SOD-123
MMSZ5V6T3G	0.0247	Pb-free Halide free non AEC-Q and PPAP	Active	5.6	0.5	SOD-123
MMSZ6V2T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	6.2	0.5	SOD-123
MMSZ6V8T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	6.8	0.5	SOD-123
MMSZ7V5T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	7.5	0.5	SOD-123

MMSZ8V2T1G	0.0297	Pb-free Halide free non AEC-Q and PPAP	Active	8.2	0.5	SOD-123
MMSZ9V1T1G	0.0259	Pb-free Halide free non AEC-Q and PPAP	Active	9.1	0.5	SOD-123
SZMMSZ10T1G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	10	0.5	SOD-123
SZMMSZ10T3G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	10	0.5	SOD-123
SZMMSZ11T1G	0.0585	AEC Qualified PPAP Capable Pb-free Halide free	Active	11	0.5	SOD-123
SZMMSZ12T1G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	12	0.5	SOD-123
SZMMSZ12T3G	0.0325	AEC Qualified PPAP Capable Pb-free Halide free	Active	12	0.5	SOD-123
SZMMSZ13T1G	0.0485	AEC Qualified PPAP Capable Pb-free Halide free	Active	13	0.5	SOD-123
SZMMSZ15T1G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	15	0.5	SOD-123
SZMMSZ16T1G	0.0583	AEC Qualified PPAP Capable Pb-free Halide free	Active	16	0.5	SOD-123
SZMMSZ18T1G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	18	0.5	SOD-123

SZMMSZ20T1G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	20	0.5	SOD-123
SZMMSZ22T1G	0.0612	AEC Qualified PPAP Capable Pb-free Halide free	Active	22	0.5	SOD-123
SZMMSZ24T1G	0.0485	AEC Qualified PPAP Capable Pb-free Halide free	Active	24	0.5	SOD-123
SZMMSZ24T3G	0.0539	AEC Qualified PPAP Capable Pb-free Halide free	Active	24	0.5	SOD-123
SZMMSZ27T1G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	27	0.5	SOD-123
SZMMSZ27T3G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	27	0.5	SOD-123
SZMMSZ2V4T1G	0.0399	AEC Qualified PPAP Capable Pb-free Halide free	Active	2.4	0.5	SOD-123
SZMMSZ2V4T3G	0.0544	AEC Qualified PPAP Capable Pb-free Halide free	Active	2.4	0.5	SOD-123
SZMMSZ2V7T1G	0.0571	AEC Qualified PPAP Capable Pb-free Halide free	Active	2.7	0.5	SOD-123
SZMMSZ30T1G	0.0485	AEC Qualified PPAP Capable Pb-free Halide free	Active	30	0.5	SOD-123
SZMMSZ33T1G	0.0485	AEC Qualified PPAP Capable Pb-free Halide free	Active	33	0.5	SOD-123

SZMMSZ33T3G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	33	0.5	SOD-123
SZMMSZ36T1G	0.0485	AEC Qualified PPAP Capable Pb-free Halide free	Active	36	0.5	SOD-123
SZMMSZ39T1G	0.0485	AEC Qualified PPAP Capable Pb-free Halide free	Active	39	0.5	SOD-123
SZMMSZ3V0T1G	0.044	AEC Qualified PPAP Capable Pb-free Halide free	Active	3	0.5	SOD-123
SZMMSZ3V3T1G	0.0431	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.3	0.5	SOD-123
SZMMSZ3V6T1G	0.0391	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.6	0.5	SOD-123
SZMMSZ3V9T1G	0.0615	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.9	0.5	SOD-123
SZMMSZ43T1G	0.0353	AEC Qualified PPAP Capable Pb-free Halide free	Active	43	0.5	SOD-123
SZMMSZ47T1G	0.0419	AEC Qualified PPAP Capable Pb-free Halide free	Active	47	0.5	SOD-123
SZMMSZ4V3T1G	0.0391	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.3	0.5	SOD-123
SZMMSZ4V7T1G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.7	0.5	SOD-123

SZMMSZ56T1G	0.0308	AEC Qualified PPAP Capable Pb-free Halide free	Active	56	0.5	SOD-123
SZMMSZ5V1T1G	0.0532	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.1	0.5	SOD-123
SZMMSZ5V6T1G	0.0515	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.6	0.5	SOD-123
SZMMSZ6V2T1G	0.0431	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.2	0.5	SOD-123
SZMMSZ6V8T1G	0.0571	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.8	0.5	SOD-123
SZMMSZ7V5T1G	0.0308	AEC Qualified PPAP Capable Pb-free Halide free	Active	7.5	0.5	SOD-123
SZMMSZ8V2T1G	0.0308	AEC Qualified PPAP Capable Pb-free Halide free	Active	8.2	0.5	SOD-123
SZMMSZ9V1T1G	0.0184	AEC Qualified PPAP Capable Pb-free Halide free	Active	9.1	0.5	SOD-123

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

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