

## Product Overview

### MM5Z2V4: 500 mW Standard Tolerance Zener Diode Voltage Regulators

For complete documentation, see the data sheet.

These Zener Diode Voltage Regulators are packaged in the SOD-523 surface mount package. They are designed to provide voltage regulation protection and are especially attractive in situations where space is at a premium. They are well suited for applications such as cellular phones, hand held portables and high density PC boards.

#### Features

- Standard Zener Breakdown Voltage Range: 2.4V to 75V
- Steady State Power Rating of 500mW
- Small Body Outline Dimensions: 0.047in x 0.032in (1.20mm x 0.80mm)
- Low Body Height: 0.028in (0.7mm)
- ESD Rating of Class 3 (>16kV) Human Body Model
- Epoxy Meets UL94, VO
- Cathode Indicated by Polarity Band
- Lead Finish: 100% Matte Sn (Tin)
- Qualified Maximum Reflow Temperature: 260C
- Device Meets MSL 1 Requirements

For more features, see the data sheet

#### Benefits

- Wide Range of Zener Breakdown Voltages

#### Applications

- Cellular phones, hand held portables, and high density PC boards, where space is at a premium.

#### End Products

- Suitable for many different end products

## Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	V <sub>Z</sub> Typ (V)	P Max (W)	Package Type
MM5Z10VT1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	10	0.5	SOD-523-2
MM5Z10VT5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	10	0.5	SOD-523-2
MM5Z11VT1G		Pb-free Halide free non AEC-Q and PPAP	Active	11	0.5	SOD-523-2
MM5Z11VT5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	11	0.5	SOD-523-2
MM5Z12VT1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	12	0.5	SOD-523-2
MM5Z12VT5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	12	0.5	SOD-523-2
MM5Z15VT1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	15	0.5	SOD-523-2
MM5Z15VT5G		Pb-free Halide free non AEC-Q and PPAP	Active	15	0.5	SOD-523-2
MM5Z16VT1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	16	0.5	SOD-523-2
MM5Z16VT5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	16	0.5	SOD-523-2
MM5Z18VT1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	18	0.5	SOD-523-2
MM5Z18VT5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	18	0.5	SOD-523-2

MM5Z20VT1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	20	0.5	SOD-523-2
MM5Z20VT5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	20	0.5	SOD-523-2
MM5Z24VT1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	24	0.5	SOD-523-2
MM5Z24VT5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	24	0.5	SOD-523-2
MM5Z27VT1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	27	0.5	SOD-523-2
MM5Z27VT5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	27	0.5	SOD-523-2
MM5Z2V4T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	2.4	0.5	SOD-523-2
MM5Z2V4T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	2.4	0.5	SOD-523-2
MM5Z2V7T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	2.7	0.5	SOD-523-2
MM5Z2V7T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	2.7	0.5	SOD-523-2
MM5Z33VT1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	33	0.5	SOD-523-2
MM5Z33VT5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	33	0.5	SOD-523-2
MM5Z36VT1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	36	0.5	SOD-523-2

MM5Z36VT5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	36	0.5	SOD-523-2
MM5Z3V0T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	3	0.5	SOD-523-2
MM5Z3V0T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	3	0.5	SOD-523-2
MM5Z3V3T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	3.3	0.5	SOD-523-2
MM5Z3V3T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	3.3	0.5	SOD-523-2
MM5Z3V6T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	3.6	0.5	SOD-523-2
MM5Z3V6T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	3.6	0.5	SOD-523-2
MM5Z47VT1G	0.0247	Pb-free Halide free non AEC-Q and PPAP	Active	47	0.5	SOD-523-2
MM5Z47VT5G	0.0247	Pb-free Halide free non AEC-Q and PPAP	Active	47	0.5	SOD-523-2
MM5Z4V3T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	4.3	0.5	SOD-523-2
MM5Z4V3T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	4.3	0.5	SOD-523-2
MM5Z4V7T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	4.7	0.5	SOD-523-2
MM5Z4V7T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	4.7	0.5	SOD-523-2

MM5Z5V1T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	5.1	0.5	SOD-523-2
MM5Z5V1T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	5.1	0.5	SOD-523-2
MM5Z5V6T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	5.6	0.5	SOD-523-2
MM5Z5V6T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	5.6	0.5	SOD-523-2
MM5Z6V2T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	6.2	0.5	SOD-523-2
MM5Z6V2T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	6.2	0.5	SOD-523-2
MM5Z6V8T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	6.8	0.5	SOD-523-2
MM5Z6V8T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	6.8	0.5	SOD-523-2
MM5Z7V5T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	7.5	0.5	SOD-523-2
MM5Z7V5T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	7.5	0.5	SOD-523-2
MM5Z8V2T1G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	8.2	0.5	SOD-523-2
MM5Z8V2T5G	0.0279	Pb-free Halide free non AEC-Q and PPAP	Active	8.2	0.5	SOD-523-2
MM5Z9V1T1G	0.0248	Pb-free Halide free non AEC-Q and PPAP	Active	9.1	0.5	SOD-523-2

MM5Z9V1T5G	0.0248	Pb-free Halide free non AEC-Q and PPAP	Active	9.1	0.5	SOD-523-2
SZMM5Z10VT1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	10	0.5	SOD-523-2
SZMM5Z10VT5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	10	0.5	SOD-523-2
SZMM5Z12VT1G	0.0667	AEC Qualified PPAP Capable Pb-free Halide free	Active	12	0.5	SOD-523-2
SZMM5Z12VT5G	0.0667	AEC Qualified PPAP Capable Pb-free Halide free	Active	12	0.5	SOD-523-2
SZMM5Z13VT1G	0.0689	AEC Qualified PPAP Capable Pb-free Halide free	Active	13	0.5	SOD-523-2
SZMM5Z13VT5G	0.0689	AEC Qualified PPAP Capable Pb-free Halide free	Active	15	0.5	SOD-523-2
SZMM5Z15VT1G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	15	0.5	SOD-523-2
SZMM5Z15VT5G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	15	0.5	SOD-523-2
SZMM5Z16VT1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	16	0.5	SOD-523-2
SZMM5Z16VT5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	16	0.5	SOD-523-2

SZMM5Z18VT1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	18	0.5	SOD-523-2
SZMM5Z18VT5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	18	0.5	SOD-523-2
SZMM5Z20VT1G	0.0667	AEC Qualified PPAP Capable Pb-free Halide free	Active	20	0.5	SOD-523-2
SZMM5Z20VT5G	0.0667	AEC Qualified PPAP Capable Pb-free Halide free	Active	20	0.5	SOD-523-2
SZMM5Z24VT1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	24	0.5	SOD-523-2
SZMM5Z24VT5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	24	0.5	SOD-523-2
SZMM5Z27VT1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	27	0.5	SOD-523-2
SZMM5Z27VT5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	27	0.5	SOD-523-2
SZMM5Z2V4T1G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	2.4	0.5	SOD-523-2
SZMM5Z2V4T5G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	2.4	0.5	SOD-523-2
SZMM5Z2V7T1G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	2.7	0.5	SOD-523-2



SZMM5Z2V7T5G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	2.7	0.5	SOD-523-2
SZMM5Z30VT1G	0.0793	AEC Qualified PPAP Capable Pb-free Halide free	Active	30	0.5	SOD-523-2
SZMM5Z30VT5G	0.0793	AEC Qualified PPAP Capable Pb-free Halide free	Active	30	0.5	SOD-523-2
SZMM5Z33VT1G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	33	0.5	SOD-523-2
SZMM5Z33VT5G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	33	0.5	SOD-523-2
SZMM5Z36VT1G	0.0667	AEC Qualified PPAP Capable Pb-free Halide free	Active	36	0.5	SOD-523-2
SZMM5Z36VT5G	0.0667	AEC Qualified PPAP Capable Pb-free Halide free	Active	36	0.5	SOD-523-2
SZMM5Z3V0T1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	3	0.5	SOD-523-2
SZMM5Z3V0T5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	3	0.5	SOD-523-2
SZMM5Z3V3T1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.3	0.5	SOD-523-2
SZMM5Z3V3T5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.3	0.5	SOD-523-2

SZMM5Z3V6T1G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.6	0.5	SOD-523-2
SZMM5Z3V6T5G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.6	0.5	SOD-523-2
SZMM5Z47VT1G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	47	0.5	SOD-523-2
SZMM5Z47VT5G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	47	0.5	SOD-523-2
SZMM5Z4V3T1G	0.0872	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.3	0.5	SOD-523-2
SZMM5Z4V3T5G	0.0872	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.3	0.5	SOD-523-2
SZMM5Z4V7T1G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.7	0.5	SOD-523-2
SZMM5Z4V7T5G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.7	0.5	SOD-523-2
SZMM5Z5V1T1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.1	0.5	SOD-523-2
SZMM5Z5V1T5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.1	0.5	SOD-523-2
SZMM5Z5V6T1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.6	0.5	SOD-523-2

SZMM5Z5V6T5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.6	0.5	SOD-523-2
SZMM5Z6V2T1G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.2	0.5	SOD-523-2
SZMM5Z6V2T5G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.2	0.5	SOD-523-2
SZMM5Z6V8T1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.8	0.5	SOD-523-2
SZMM5Z6V8T5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.8	0.5	SOD-523-2
SZMM5Z7V5T1G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	7.5	0.5	SOD-523-2
SZMM5Z7V5T5G	0.0591	AEC Qualified PPAP Capable Pb-free Halide free	Active	7.5	0.5	SOD-523-2
SZMM5Z8V2T1G	0.0667	AEC Qualified PPAP Capable Pb-free Halide free	Active	8.2	0.5	SOD-523-2
SZMM5Z8V2T5G	0.0667	AEC Qualified PPAP Capable Pb-free Halide free	Active	8.2	0.5	SOD-523-2
SZMM5Z9V1T1G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	9.1	0.5	SOD-523-2
SZMM5Z9V1T5G	0.0785	AEC Qualified PPAP Capable Pb-free Halide free	Active	9.1	0.5	SOD-523-2

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Created on: 10/25/2021