

# Zener Diode



## Features:

- Silicon Planar Power Zener Diodes
- Standard Zener Voltage Tolerance is  $\pm 5\%$  with a "B" Suffix, and  $\pm 10\%$  with a "A" Suffix. other Tolerances are Available Upon Request

## Mechanical Data

- Case: JEDEC MINI-MELF, Glass Case
- Terminals: Solderable per MILSTD-202, Method 208
- Polarity: Colour Band Denotes cathodes end
- Weight: Approx. 0.031g
- Mounting Position: Any

## Maximum Ratings and Thermal Characteristics

(T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Power dissipation at T <sub>a</sub> =75°C (Note 1)	P <sub>tot</sub>	500	mW
Maximum thermal resistance junction to ambient (Note 1)	R <sub>θJA</sub>	300	k/W
Junction and Storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +175	°C

### Notes:

(1) Valid provided that electrodes are kept at ambient temperature.

## Electrical Characteristics:

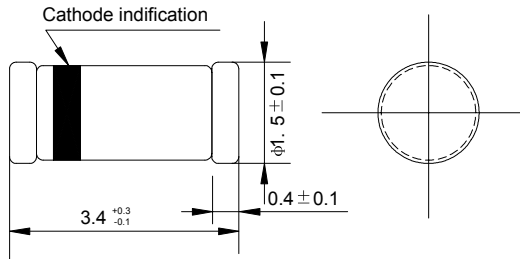
(Ratings at 25°C ambient temperature unless otherwise specified).

Part Number	Nominal Zener Voltage		Maximum Zener Impedance		Typical Temperature Coefficient	Maximum Reverse Leakage Current		Maximum DC Zener Current
	V <sub>Z</sub> @ I <sub>ZT</sub>	I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub> (Note 1)	αV <sub>Z</sub>	I <sub>R</sub> @ V <sub>R</sub>		I <sub>ZM</sub>
	(V)	(mA)	(Ω)	(Ω)	%/°C	(μA)	(V)	(mA)
ZMM5232B-7	5.6	20	11	1,600	+0.038	5	3	81
ZMM5236B-7	7.5		6	500	+0.058	3	6	61
ZMM5248B-7	18	7	21	600	+0.085	0.1	14	25
ZMM5265B-7	62	2	185	1,400	+0.097		47	-

### Notes:

(1) I<sub>ZK</sub>=0.25mA

## Package Outline Dimensions



**MINI-MELF**

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Zener Diode	ZMM5232B-7
	ZMM5236B-7
	ZMM5248B-7
	ZMM5265B-7

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