

# 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

( $T_A=25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol	Value	Unit
Power dissipation at $T_a=75^\circ\text{C}$ (Note 1)	$P_{\text{tot}}$	500	mW
Maximum thermal resistance junction to ambient (Note 1)	$R_{\theta JA}$	300	k/W
Junction and Storage temperature range	$T_J, T_{\text{STG}}$	-55 to +175	$^\circ\text{C}$

### Notes:

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

## Electrical Characteristics:

(Ratings at  $25^\circ\text{C}$  ambient temperature unless otherwise specified).

Part Number	Nominal Zener Voltage		Maximum Zener Impedance		Typical Temperature Coefficient	Maximum Reverse Leakage Current		Maximum DC Zener Current
	$V_Z @ I_{ZT}$	$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$ (Note 1)	$\alpha V_Z$	$I_R @ V_R$		$I_{ZM}$
	(V)	(mA)	( $\Omega$ )	( $\Omega$ )	$\%/^\circ\text{C}$	( $\mu\text{A}$ )	(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	-

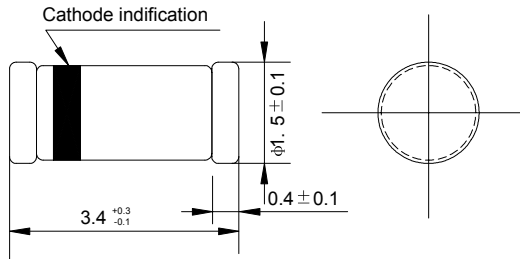
### Notes:

(1)  $I_{ZK}=0.25\text{mA}$

# Zener Diode



## 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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