

# ZMMxxxBPF-M

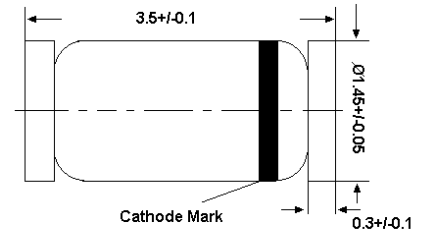
## Silicon Planar Zener Diodes

Zener voltage tolerance is  $\pm 2\%$

### Features

- Lead Free

LL-34



Glass case MiniMELF  
Dimensions in mm

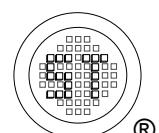
### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Power Dissipation <sup>1)</sup>	$P_{\text{tot}}$	500	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Junction and Storage Temperature Range	$T_{\text{Stg}}$	- 65 to + 175	$^\circ\text{C}$

### Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient <sup>1)</sup>	$R_{\theta\text{JA}}$	300	$^\circ\text{C/W}$

<sup>1)</sup> Valid provided that electrodes are kept at ambient temperature.

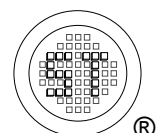


# ZMMxxxBPF-M

Characteristics at  $T_a = 25^\circ\text{C}$  ( $V_F = 1\text{ V Max. at } I_F = 100\text{ mA}$ )

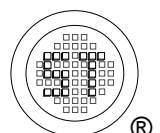
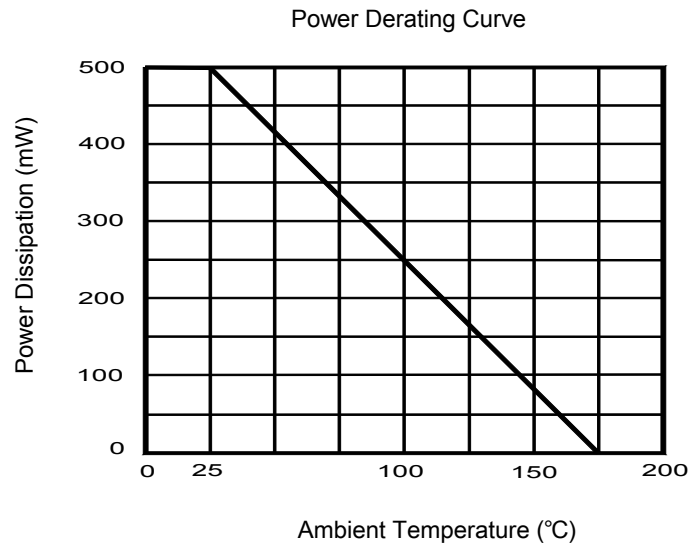
Type	Zener Voltage Range <sup>1)</sup>			Dynamic Resistance				Reverse Leakage Current	
	$V_{znom}$	$V_{ZT}$	at $I_{ZT}$	$Z_{ZT}$	at $I_{ZT}$	$Z_{ZK}$	at $I_{ZK}$	$I_R$	at $V_R$
	V	V	mA	Max. ( $\Omega$ )	mA	Max. ( $\Omega$ )	mA	Max. ( $\mu\text{A}$ )	V
ZMM3B6PF	3.6	3.52...3.68	5	85	5	600	1	2	1
ZMM3B9PF	3.9	3.82...3.98	5	85	5	600	1	2	1
ZMM4B3PF	4.3	4.21...4.39	5	75	5	600	1	1	1
ZMM4B7PF	4.7	4.6...4.8	5	60	5	600	1	0.5	1
ZMM5B1PF	5.1	4.99...5.2	5	35	5	550	1	0.1	1
ZMM5B6PF	5.6	5.49...5.71	5	25	5	450	1	0.1	1
ZMM6B2PF	6.2	6.07...6.32	5	10	5	200	1	0.1	2
ZMM6B8PF	6.8	6.66...6.94	5	8	5	150	1	0.1	3
ZMM7B5PF	7.5	7.35...7.65	5	7	5	50	1	0.1	5
ZMM8B2PF	8.2	8.04...8.36	5	7	5	50	1	0.1	6.2
ZMM9B1PF	9.1	8.92...9.28	5	10	5	50	1	0.1	6.8
ZMM10BPF	10	9.8...10.2	5	15	5	70	1	0.1	7.5
ZMM11BPF	11	10.8...11.2	5	20	5	70	1	0.1	8.2
ZMM12BPF	12	11.8...12.2	5	20	5	90	1	0.1	9.1
ZMM13BPF	13	12.7...13.3	5	26	5	110	1	0.1	10
ZMM15BPF	15	14.7...15.3	5	30	5	110	1	0.1	11
ZMM16BPF	16	15.7...16.3	5	40	5	170	1	0.1	12
ZMM18BPF	18	17.6...18.4	5	50	5	170	1	0.1	13
ZMM20BPF	20	19.6...20.4	5	55	5	220	1	0.1	15
ZMM22BPF	22	21.6...22.5	5	55	5	220	1	0.1	16
ZMM24BPF	24	23.5...24.5	5	80	5	220	1	0.1	18
ZMM27BPF	27	26.4...27.6	5	80	5	220	1	0.1	20
ZMM30BPF	30	29.4...30.6	5	80	5	220	1	0.1	22
ZMM33BPF	33	32.3...33.7	5	80	5	220	1	0.1	24
ZMM36BPF	36	35.2...36.8	5	80	5	220	1	0.1	27

<sup>1)</sup> Tested with pulses  $t_p = 20\text{ ms}$ .



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