

**PRODUCT NAME****5 Inch ZENER DIODE FOR MOLDING****PHENITEC  
SEMICONDUCTOR****TYPE : MB\*\*M/MC\*\*M Series**

Wafer size	5 Inch		
Chip size	0.33mm x 0.33mm ( 101184 pcs / wafer )		
Vz Rank	VZ ± 2.5%	MB2V4M ~ MB7V5M	MB8V2M ~ MB75VM
	VZ +/- 5.0%	MC2V4M ~ MC7V5M	MC8V2M ~ MC75VM

**ABSOLUTE MAX RATINGS ( Ta = 25 °C )**

ITEM	SYMBOL	MAX RATINGS	UNIT	NOTE
Power Dissipation	Pd	350	mW	
Junction Temperature	Tj	125	°C	
Storage Temperature	Tstg	-55 to +125	°C	

**OUTGOING SPECIFICATIONS ( Ta = 25 °C )**

MB\*\*M Series ( VZ ± 2.5% ) ...Page.2

MC\*\*M Series ( VZ ± 5.0% ) ...Page.3

**NOTE :**

## 1. Yield :

Wafer yield must be more than 80% ( MB\*\*M Type : VZ ± 2.5% ).

Wafer yield must be more than 90% ( MC\*\*M Type : VZ ± 5.0% ).

PRODUCT NAME : 5 Inch ZENER DIODE FOR MOLDING											Page.
TYPE : MB**M Series ( VZ $\pm$ 2.5% )											2 of 3
Vz Rank	VF (V)		VZ (V)			IR ( $\mu$ A)		ZZT ( $\Omega$ )		ZZK ( $\Omega$ )	
	MAX	IF (mA)	MIN	MAX	Iz (mA)	MAX	VR (V)	MAX	Iz (mA)	MAX	Iz (mA)
MB2V4M	0.90	10	2.340	2.460	5	100	1	100	5	1800	0.25
MB2V7M	0.90	10	2.633	2.767	5	75	1	100	5	1900	0.25
MB3V0M	0.90	10	2.925	3.075	5	50	1	95	5	2000	0.25
MB3V3M	0.90	10	3.218	3.382	5	25	1	95	5	2200	0.25
MB3V6M	0.90	10	3.510	3.690	5	15	1	90	5	2300	0.25
MB3V9M	0.90	10	3.803	3.997	5	10	1	90	5	2400	0.25
MB4V3M	0.90	10	4.193	4.407	5	5	1	88	5	2500	0.25
MB4V7M	0.90	10	4.583	4.817	5	3	1.5	70	5	2200	0.25
MB5V1M	0.90	10	4.973	5.227	5	2	2	50	5	2050	0.25
MB5V6M	0.90	10	5.460	5.740	5	2	3	25	5	1800	0.25
MB6V2M	0.90	10	6.045	6.355	5	1	4	10	5	1300	0.25
MB6V8M	0.90	10	6.630	6.970	5	1	5.2	8	5	750	0.25
MB7V5M	0.90	10	7.313	7.687	5	0.5	6	7	5	600	0.25
MB8V2M	0.90	10	7.995	8.405	5	0.5	6.5	7	5	600	0.25
MB9V1M	0.90	10	8.873	9.327	5	0.1	7	10	5	600	0.25
MB10VM	0.90	10	9.750	10.25	5	0.1	8	15	5	600	0.25
MB11VM	0.90	10	10.73	11.27	5	0.1	8.4	18	5	600	0.25
MB12VM	0.90	10	11.70	12.30	5	0.1	9.1	22	5	600	0.25
MB13VM	0.90	10	12.68	13.32	5	0.1	9.9	25	5	600	0.25
MB15VM	0.90	10	14.63	15.37	5	0.1	11	32	5	600	0.25
MB16VM	0.90	10	15.60	16.40	5	0.1	12	36	5	600	0.25
MB18VM	0.90	10	17.55	18.45	5	0.1	14	42	5	600	0.25
MB20VM	0.90	10	19.50	20.50	5	0.1	15	48	5	600	0.25
MB22VM	0.90	10	21.45	22.55	5	0.1	17	55	5	600	0.25
MB24VM	0.90	10	23.40	24.60	5	0.1	18	62	5	600	0.25
MB27VM	0.90	10	26.33	27.67	5	0.1	21	70	5	600	0.25
MB30VM	0.90	10	29.25	30.75	5	0.1	23	78	5	600	0.25
MB33VM	0.90	10	32.18	33.82	5	0.1	25	88	5	700	0.25
MB36VM	0.90	10	35.10	36.90	5	0.1	27	95	5	700	0.25
MB39VM	0.90	10	38.03	39.97	5	0.1	30	130	5	800	0.25
MB43VM	0.90	10	41.93	44.07	2	0.1	33	150	2	900	0.25
MB47VM	0.90	10	45.83	48.17	2	0.1	36	170	2	1000	0.25
MB51VM	0.90	10	49.73	52.27	2	0.1	39	180	2	1300	0.25
MB56VM	0.90	10	54.60	57.40	2	0.1	43	200	2	1400	0.25
MB62VM	0.90	10	60.45	63.55	2	0.1	47	225	2	1400	0.25
MB68VM	0.90	10	66.30	69.70	2	0.1	52	240	2	1600	0.25
MB75VM	0.90	10	73.13	76.87	2	0.1	56	265	2	1700	0.25

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**TYPE : MC\*\*M Series ( VZ  $\pm$ 5.0% )**

VZ Rank	VF (V)		VZ (V)			IR ( $\mu$ A)		ZZT ( $\Omega$ )		ZZK ( $\Omega$ )	
	MAX	IF (mA)	MIN	MAX	Iz (mA)	MAX	VR (V)	MAX	Iz (mA)	MAX	Iz (mA)
MC2V4M	0.90	10	2.280	2.520	5	100	1	100	5	1800	0.25
MC2V7M	0.90	10	2.565	2.835	5	75	1	100	5	1900	0.25
MC3V0M	0.90	10	2.850	3.150	5	50	1	95	5	2000	0.25
MC3V3M	0.90	10	3.135	3.465	5	25	1	95	5	2200	0.25
MC3V6M	0.90	10	3.420	3.780	5	15	1	90	5	2300	0.25
MC3V9M	0.90	10	3.705	4.095	5	10	1	90	5	2400	0.25
MC4V3M	0.90	10	4.085	4.515	5	5	1	88	5	2500	0.25
MC4V7M	0.90	10	4.465	4.935	5	3	1.5	70	5	2200	0.25
MC5V1M	0.90	10	4.845	5.355	5	2	2	50	5	2050	0.25
MC5V6M	0.90	10	5.320	5.880	5	2	3	25	5	1800	0.25
MC6V2M	0.90	10	5.890	6.510	5	1	4	10	5	1300	0.25
MC6V8M	0.90	10	6.460	7.140	5	1	5.2	8	5	750	0.25
MC7V5M	0.90	10	7.125	7.875	5	0.5	6	7	5	600	0.25
MC8V2M	0.90	10	7.790	8.610	5	0.5	6.5	7	5	600	0.25
MC9V1M	0.90	10	8.645	9.555	5	0.1	7	10	5	600	0.25
MC10VM	0.90	10	9.500	10.50	5	0.1	8	15	5	600	0.25
MC11VM	0.90	10	10.45	11.55	5	0.1	8.4	18	5	600	0.25
MC12VM	0.90	10	11.40	12.60	5	0.1	9.1	22	5	600	0.25
MC13VM	0.90	10	12.35	13.65	5	0.1	9.9	25	5	600	0.25
MC15VM	0.90	10	14.25	15.75	5	0.1	11	32	5	600	0.25
MC16VM	0.90	10	15.20	16.80	5	0.1	12	36	5	600	0.25
MC18VM	0.90	10	17.10	18.90	5	0.1	14	42	5	600	0.25
MC20VM	0.90	10	19.00	21.00	5	0.1	15	48	5	600	0.25
MC22VM	0.90	10	20.90	23.10	5	0.1	17	55	5	600	0.25
MC24VM	0.90	10	22.80	25.20	5	0.1	18	62	5	600	0.25
MC27VM	0.90	10	25.65	28.35	5	0.1	21	70	5	600	0.25
MC30VM	0.90	10	28.50	31.50	5	0.1	23	78	5	600	0.25
MC33VM	0.90	10	31.35	34.65	5	0.1	25	88	5	700	0.25
MC36VM	0.90	10	34.20	37.80	5	0.1	27	95	5	700	0.25
MC39VM	0.90	10	37.05	40.95	5	0.1	30	130	5	800	0.25
MC43VM	0.90	10	40.85	45.15	2	0.1	33	150	2	900	0.25
MC47VM	0.90	10	44.65	49.35	2	0.1	36	170	2	1000	0.25
MC51VM	0.90	10	48.45	53.55	2	0.1	39	180	2	1300	0.25
MC56VM	0.90	10	53.20	58.80	2	0.1	43	200	2	1400	0.25
MC62VM	0.90	10	58.90	65.10	2	0.1	47	225	2	1400	0.25
MC68VM	0.90	10	64.60	71.40	2	0.1	52	240	2	1600	0.25
MC75VM	0.90	10	71.25	78.75	2	0.1	56	265	2	1700	0.25