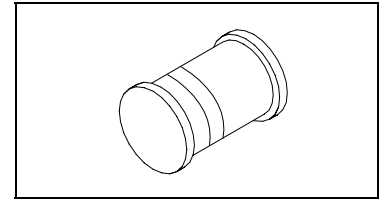




# HMM52 Series

ZENER DIODES



Device Type	Nominal Zener Voltage $V_z$ at $I_{zT}^*$ (V)	Test Current $I_{zT}$ (mA)	Maximum Zener Impedance		Typical Temperature Coefficient (%/°C)	Maximum Reverse Leakage Current		Maximum Regulator Current $I_{zM}$ (mA)
			$Z_{zT}$ at $I_{zT}$ ( $\Omega$ )	$Z_{zk}$ at $I_{zk}=0.25mA$ ( $\Omega$ )		$I_R$ ( $\mu A$ )	Test-Voltage suffix B (V)	
HMM5221B	2.4	20	30	1200	-0.085	100	1.0	191
HMM5222B	2.5	20	30	1250	-0.085	100	1.0	182
HMM5223B	2.7	20	30	1300	-0.080	75	1.0	168
HMM5224B	2.8	20	30	1400	-0.080	75	1.0	162
HMM5225B	3.0	20	29	1600	-0.075	50	1.0	151
HMM5226B	3.3	20	28	1600	-0.070	25	1.0	138
HMM5227B	3.6	20	24	1700	-0.065	15	1.0	126
HMM5228B	3.9	20	23	1900	-0.060	10	1.0	115
HMM5229B	4.3	20	22	2000	+0.055	5	1.0	106
HMM5230B	4.7	20	19	1900	+0.030	5	1.0	97
HMM5231B	5.1	20	17	1600	+0.030	5	2.0	89
HMM5232B	5.6	20	17	1600	+0.038	5	3.0	81
HMM5233B	6.0	20	7	1600	+0.038	5	3.5	76
HMM5234B	6.2	20	7	1000	+0.045	5	4.0	73
HMM5235B	6.8	20	5	750	+0.050	3	5.0	67
HMM5236B	7.5	20	6	500	+0.058	3	6.0	61
HMM5237B	8.2	20	8	500	+0.062	3	6.5	55
HMM5238B	8.7	20	8	600	+0.065	3	6.5	52
HMM5239B	9.1	20	10	600	+0.068	3	7.0	50
HMM5240B	10	20	17	600	+0.075	3	8.0	45
HMM5241B	11	20	22	600	+0.076	2	8.4	41
HMM5242B	12	20	30	600	+0.077	1	9.1	38
HMM5243B	13	9.5	13	600	+0.079	0.5	9.9	35
HMM5244B	14	9.0	15	600	+0.082	0.1	10	32
HMM5245B	15	8.5	16	600	+0.082	0.1	11	30
HMM5246B	16	7.8	17	600	+0.083	0.1	12	28
HMM5247B	17	7.4	19	600	+0.084	0.1	13	27
HMM5248B	18	7.0	21	600	+0.085	0.1	14	25
HMM5249B	19	6.6	23	600	+0.086	0.1	14	24
HMM5250B	20	6.2	25	600	+0.086	0.1	15	23
HMM5251B	22	5.6	29	600	+0.087	0.1	17	21.2
HMM5252B	24	5.2	33	600	+0.087	0.1	18	19.1
HMM5253B	25	5.0	35	600	+0.089	0.1	19	18.2
HMM5254B	27	4.6	41	600	+0.090	0.1	21	16.8
HMM5255B	28	4.5	44	600	+0.091	0.1	21	16.2
HMM5256B	30	4.2	49	600	+0.091	0.1	23	15.1
HMM5257B	33	3.8	58	700	+0.092	0.1	25	13.8
HMM5258B	36	3.4	70	700	+0.093	0.1	27	12.6
HMM5259B	39	3.2	80	800	+0.094	0.1	30	11.5



HMM5260B	43	3	93	900	+0.095	0.1	33	10.6
HMM5261B	47	2.7	150	1000	+0.095	0.1	36	9.7

Note : 1. Standard Voltage Tolerance is  $\pm 5\%$  and Suffix "A" for  $\pm 3\%$ , Suffix "B" for  $\pm 5\%$ , Suffix "C" for  $\pm 10\%$ , Suffix "D" for  $\pm 20\%$   
 2. \*Measured With Pulses  $T_p=40m$  Sec.

### Absolute Maximum Ratings

Characteristics	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation at $T_{amb}=25^\circ C$	Ptot	500*	mW
Junction Temperature	Tj	175	$^\circ C$
Storage Temperature Range	Ts	-65 to +175	$^\circ C$

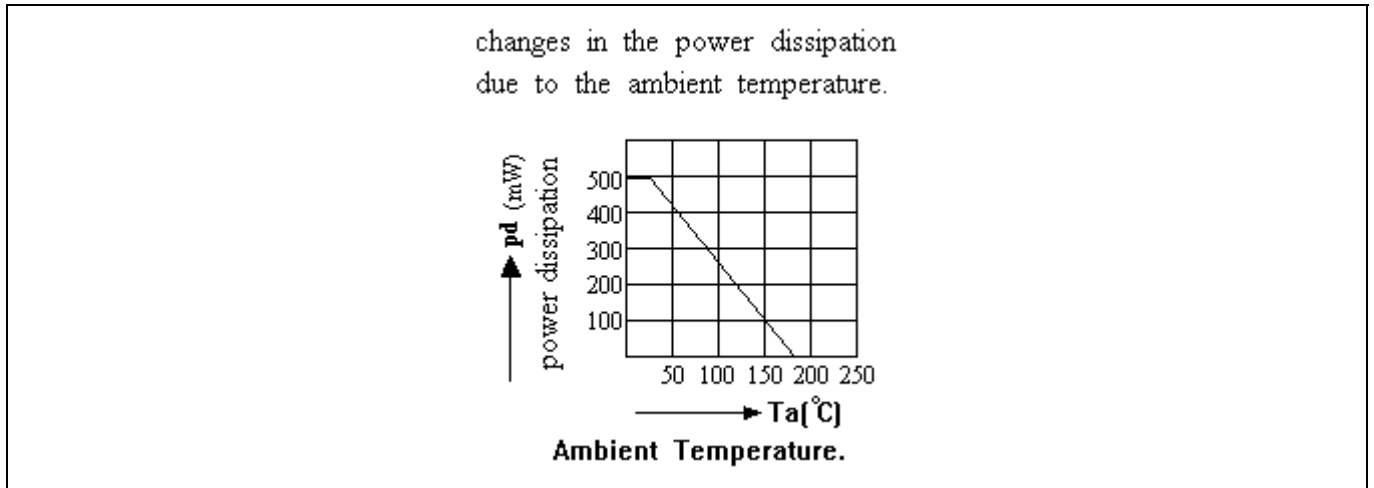
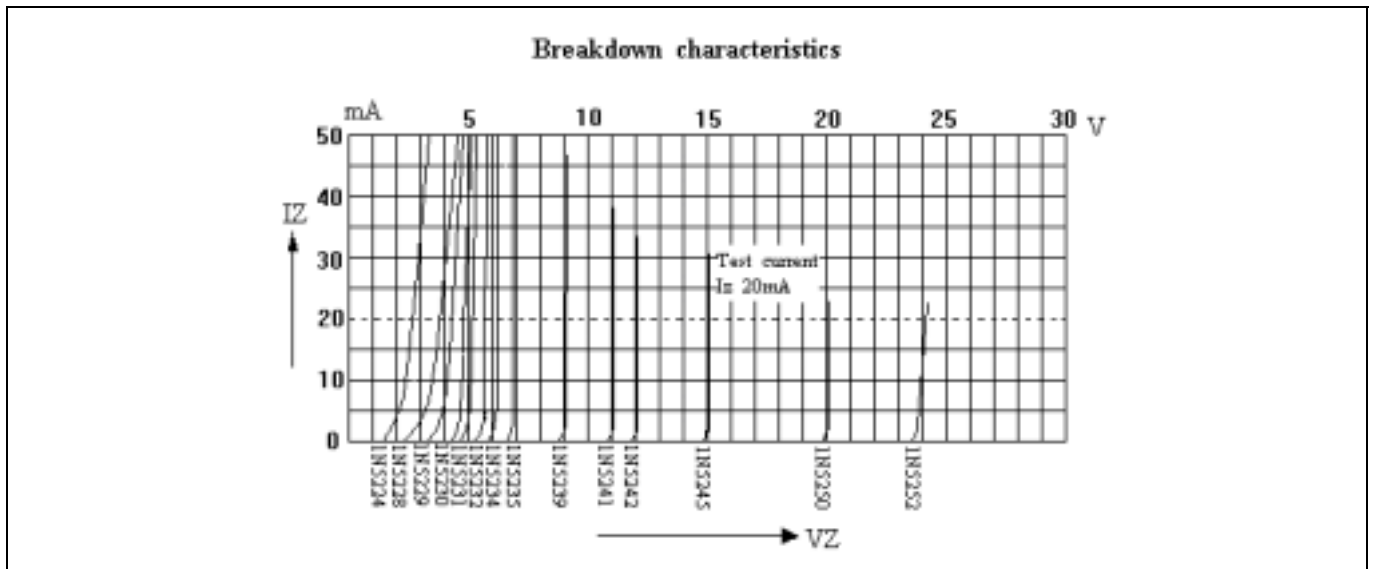
\*Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.

### Characteristics ( $T_{amb}=25^\circ C$ )

Characteristics	Symbol	Min	Typ	Max	Unit
Thermal Resistance Junction to Ambient Air	RthA	-	-	0.3*	K/mW
Forward Voltage at $I_F=100mA$	VF	-	-	1	V

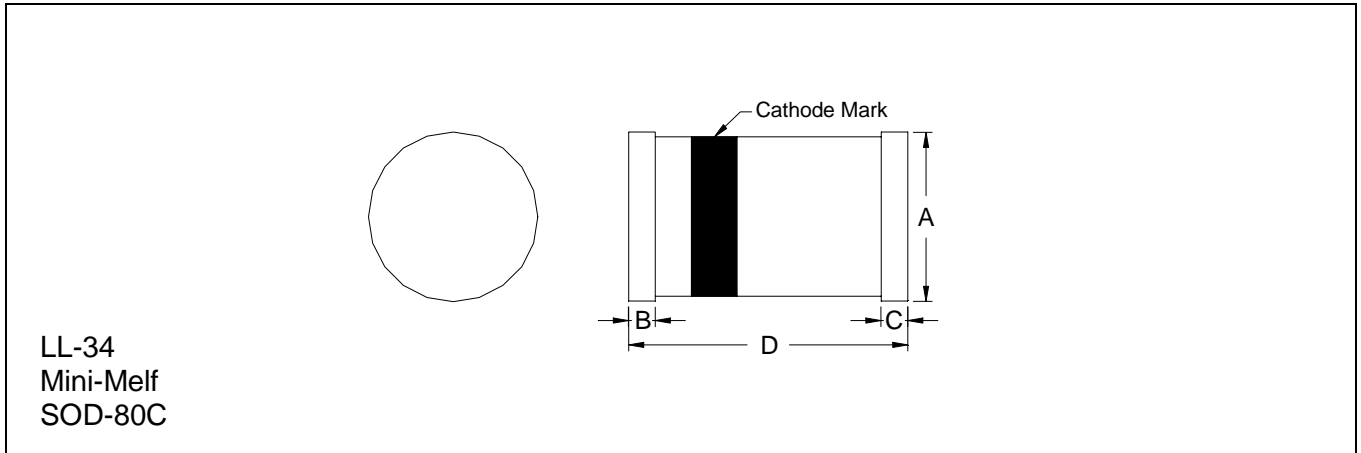
\*Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.

### Characteristics Curve





### Dimension



\*:Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.0512	0.0591	1.30	1.50	C	0.0118	0.0197	0.30	0.50
B	0.0118	0.0197	0.30	0.50	D	0.1260	0.1417	3.2	3.6

Notes : 1.Dimension and tolerance based on our Spec. dated Sep. 30,1999  
 2.Controlling dimension : millimeters.  
 3.Maximum lead thickness includes lead finish thickness, and minimum lead thickness is the minimum thickness of base material.  
 4.If there is any question with packing specification or packing method, please contact your local HSMC sales office.

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