



Micro Commercial Components

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H2 Series THRU H36 Series

**500 mW
Zener Diode
1.9 to 37.2 Volts**

Features

- Low Leakage
- Low Zener Impedance
- High Reliability
- Marking : Cathode band and type number

Maximum Ratings

Symbol	Rating	Rating	Unit
P_b	Power dissipation	500	W
T_j	Junction Temperature	-55 to +175	$^{\circ}C$
T_{STG}	Storage Temperature Range	-55 to +175	$^{\circ}C$

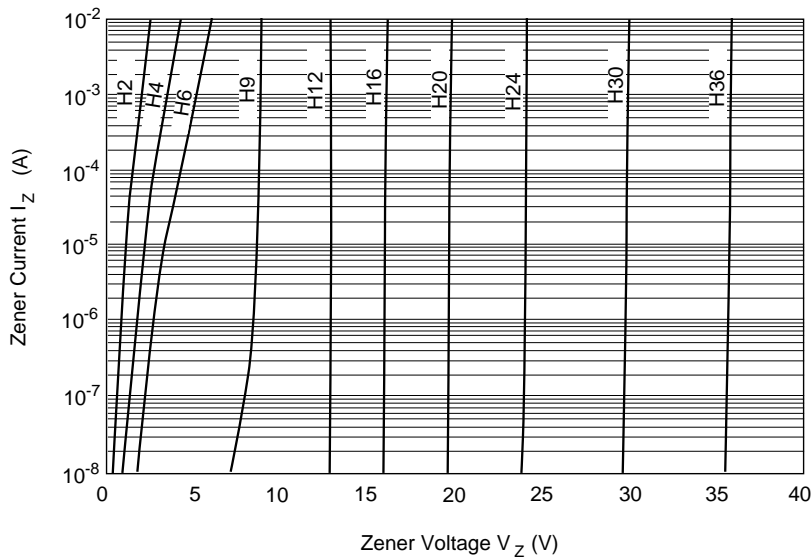
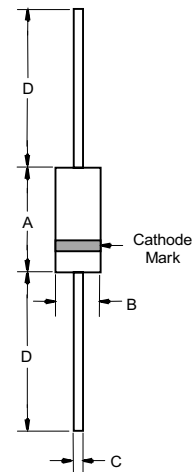


Fig.1 Zener current Vs. Zener voltage

DO-35



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

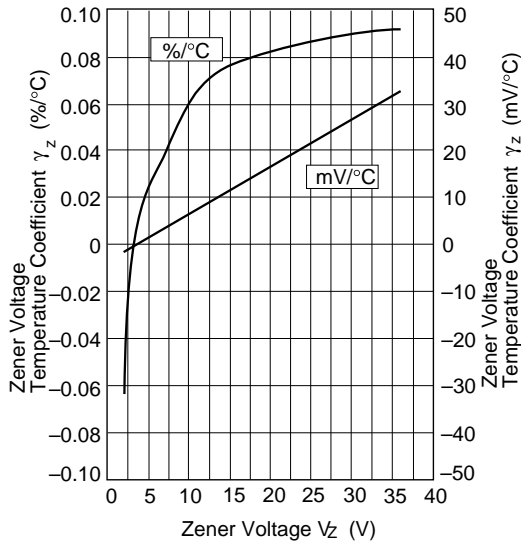


Fig.2 Temperature Coefficient Vs. Zener voltage

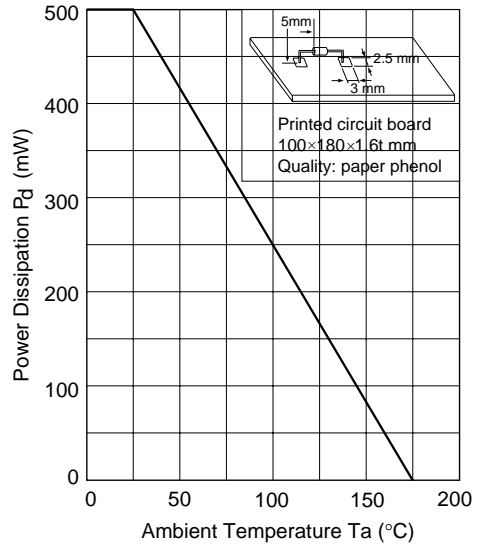


Fig.3 Power Dissipation Vs. Ambient Temperature

ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER		ZENER VOLTAGE Vz @ I _{ZT} VOLTS		TEST CURRENT I _{ZT}	Dynamic Resistance r _d (Max) I _Z		REVERSE CURRENT I _R (Max) @ V _R	
Type	Grade	Min	Max	mA	OHMS	mA	μA	VOLTS
H2	A3	1.8	2.0	5.0	100	5.0	25	0.5
	B1	1.9	2.1	5.0	100	5.0	5.0	0.5
	B2	2.0	2.2	5.0	100	5.0	5.0	0.5
	B3	2.1	2.3	5.0	100	5.0	5.0	0.5
	C1	2.2	2.4	5.0	100	5.0	5.0	0.5
	C2	2.3	2.5	5.0	100	5.0	5.0	0.5
H3	A1	2.5	2.7	5.0	100	5.0	5.0	0.5
	A2	2.6	2.8	5.0	100	5.0	5.0	0.5
	A3	2.7	2.9	5.0	100	5.0	5.0	0.5
	B1	2.8	3.0	5.0	100	5.0	5.0	0.5
	B2	2.9	3.1	5.0	100	5.0	5.0	0.5
	B3	3.0	3.2	5.0	100	5.0	5.0	0.5
H4	C1	3.1	3.3	5.0	100	5.0	5.0	0.5
	C2	3.2	3.4	5.0	100	5.0	5.0	0.5
	C3	3.3	3.5	5.0	100	5.0	5.0	0.5
	A1	3.4	3.6	5.0	100	5.0	5.0	1.0
	A2	3.5	3.7	5.0	100	5.0	5.0	1.0
	A3	3.6	3.8	5.0	100	5.0	5.0	1.0
	B1	3.7	3.9	5.0	100	5.0	5.0	1.0
	B2	3.8	4.0	5.0	100	5.0	5.0	1.0
B3	3.9	4.1	5.0	100	5.0	5.0	1.0	
C1	4.0	4.2	5.0	100	5.0	5.0	1.0	
C2	4.1	4.3	5.0	100	5.0	5.0	1.0	

H2 Series thru H36 Series

ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER		ZENER VOLTAGE $V_Z @ I_{ZT}$ VOLTS		TEST CURRENT I_{ZT}	Dynamic Resistance r_d (Max) I_Z		REVERSE CURRENT I_R (Max) @ V_R	
Type	Grade	Min	Max	mA	OHMS	mA	μ A	VOLTS
H5	A1	4.3	4.5	5.0	100	5.0	5.0	1.5
	A2	4.4	4.6	5.0	100	5.0	5.0	1.5
	A3	4.5	4.7	5.0	100	5.0	5.0	1.5
	B1	4.6	4.8	5.0	100	5.0	5.0	1.5
	B2	4.7	4.9	5.0	100	5.0	5.0	1.5
	B3	4.8	5.0	5.0	100	5.0	5.0	1.5
	C1	4.9	5.1	5.0	100	5.0	5.0	1.5
	C2	5.0	5.2	5.0	100	5.0	5.0	1.5
	C3	5.1	5.3	5.0	100	5.0	5.0	1.5
H6	A1	5.2	5.5	5.0	40	5.0	5.0	2.0
	A2	5.3	5.6	5.0	40	5.0	5.0	2.0
	A3	5.4	5.7	5.0	40	5.0	5.0	2.0
	B1	5.5	5.8	5.0	40	5.0	5.0	2.0
	B2	5.6	5.9	5.0	40	5.0	5.0	2.0
	B3	5.7	6.0	5.0	40	5.0	5.0	2.0
	C1	5.8	6.1	5.0	40	5.0	5.0	2.0
	C2	6.0	6.3	5.0	40	5.0	5.0	2.0
	C3	6.1	6.4	5.0	40	5.0	5.0	2.0
H7	A1	6.3	6.6	5.0	15	5.0	1.0	3.5
	A2	6.4	6.7	5.0	15	5.0	1.0	3.5
	A3	6.6	6.9	5.0	15	5.0	1.0	3.5
	B1	6.7	7.0	5.0	15	5.0	1.0	3.5
	B2	6.9	7.2	5.0	15	5.0	1.0	3.5
	B3	7.0	7.3	5.0	15	5.0	1.0	3.5
	C1	7.2	7.6	5.0	15	5.0	1.0	3.5
	C2	7.3	7.7	5.0	15	5.0	1.0	3.5
	C3	7.5	7.9	5.0	15	5.0	1.0	3.5
H9	A1	7.7	8.1	5.0	20	5.0	1.0	5.0
	A2	7.9	8.3	5.0	20	5.0	1.0	5.0
	A3	8.1	8.5	5.0	20	5.0	1.0	5.0
	B1	8.3	8.7	5.0	20	5.0	1.0	5.0
	B2	8.5	8.9	5.0	20	5.0	1.0	5.0
	B3	8.7	9.1	5.0	20	5.0	1.0	5.0
	C1	8.9	9.3	5.0	20	5.0	1.0	5.0
	C2	9.1	9.5	5.0	20	5.0	1.0	5.0
	C3	9.3	9.7	5.0	20	5.0	1.0	5.0
H11	A1	9.5	9.9	5.0	25	5.0	1.0	7.5
	A2	9.7	10.1	5.0	25	5.0	1.0	7.5
	A3	9.9	10.3	5.0	25	5.0	1.0	7.5
	B1	10.2	10.6	5.0	25	5.0	1.0	7.5
	B2	10.4	10.8	5.0	25	5.0	1.0	7.5
	B3	10.7	11.1	5.0	25	5.0	1.0	7.5
	C1	10.9	11.3	5.0	25	5.0	1.0	7.5
	C2	11.1	11.6	5.0	25	5.0	1.0	7.5
	C3	11.4	11.9	5.0	25	5.0	1.0	7.5
H12	A1	11.6	12.1	5.0	35	5.0	1.0	9.5
	A2	11.9	12.4	5.0	35	5.0	1.0	9.5
	A3	12.2	12.7	5.0	35	5.0	1.0	9.5
	B1	12.4	12.9	5.0	35	5.0	1.0	9.5
	B2	12.6	13.1	5.0	35	5.0	1.0	9.5
	B3	12.9	13.4	5.0	35	5.0	1.0	9.5
	C1	13.2	13.7	5.0	35	5.0	1.0	9.5
	C2	13.5	14.0	5.0	35	5.0	1.0	9.5
	C3	13.8	14.3	5.0	35	5.0	1.0	9.5
H15	1	14.1	14.7	5.0	40	5.0	1.0	11
	2	14.5	15.1	5.0	40	5.0	1.0	11
	3	14.9	15.5	5.0	40	5.0	1.0	11
H16	1	15.3	15.9	5.0	45	5.0	1.0	12
	2	15.7	16.5	5.0	45	5.0	1.0	12
	3	16.3	17.1	5.0	45	5.0	1.0	12
H18	1	16.9	17.7	5.0	55	5.0	1.0	13
	2	17.5	18.3	5.0	55	5.0	1.0	13
	3	18.1	19.0	5.0	55	5.0	1.0	13
H20	1	18.8	19.7	2.0	60	2.0	1.0	15
	2	19.5	20.4	2.0	60	2.0	1.0	15
	3	20.2	21.1	2.0	60	2.0	1.0	15

H2 Series thru H36 Series

ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER		ZENER VOLTAGE $V_Z @ I_{ZT}$ VOLTS		TEST CURRENT I_{ZT}	Dynamic Resistance $r_d(\text{Max})$ I_Z		REVERSE CURRENT $I_R(\text{Max}) @ V_R$	
Type	Grade	Min	Max	mA	OHMS	mA	μA	VOLTS
H22	1	20.9	21.9	2.0	65	2.0	1.0	17
	2	21.6	22.6	2.0	65	2.0	1.0	17
	3	22.3	23.3	2.0	65	2.0	1.0	17
H24	1	22.9	24.0	2.0	70	2.0	1.0	19
	2	23.6	24.7	2.0	70	2.0	1.0	19
	3	24.3	25.5	2.0	70	2.0	1.0	19
H27	1	25.2	26.6	2.0	80	2.0	1.0	21.0
	2	26.2	27.6	2.0	80	2.0	1.0	21.0
	3	27.2	28.6	2.0	80	2.0	1.0	21.0
H30	1	28.2	29.6	2.0	100	2.0	1.0	23.0
	2	29.2	30.6	2.0	100	2.0	1.0	23.0
	3	30.2	31.6	2.0	100	2.0	1.0	23.0
H33	1	31.2	32.6	2.0	120	2.0	1.0	25.0
	2	32.2	33.6	2.0	120	2.0	1.0	25.0
	3	33.2	34.6	2.0	120	2.0	1.0	25.0
H36	1	34.2	35.7	2.0	140	2.0	1.0	27.0
	2	35.3	36.8	2.0	140	2.0	1.0	27.0
	3	36.4	38.0	2.0	140	2.0	1.0	27.0



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