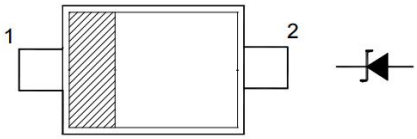
MM5Z2V0 THRU MM5Z75

Silicon Planar Zener Diodes

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Simplified outline SOD-523 and symbol

Features

- Standard Zener Breakdown Voltage Range 2.0V to 75V
- Steady State Power Rating of 200mW

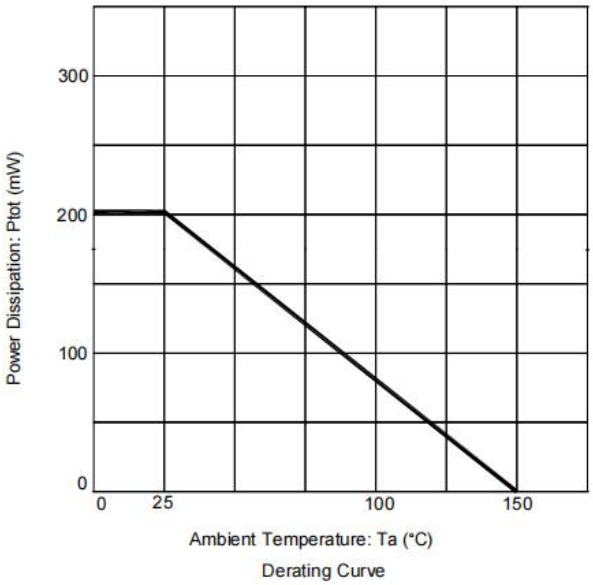
Absolute Maximum Ratings (T_A=25℃)

Parameter	Symbol	Value	Unit
Total Device Dissipation	P_{tot}	200	mW
Operating and Storage Temperature Range	T_J,T_{STG}	-65~+150	℃

Characteristics (T_A=25℃)

Parameter	Symbol	Value	Unit
Forward Voltage at I_F=10mA	V_F	0.9	V

Typical Characteristics



Derating Curve

Electrical Characteristics (T_A=25°C)

Type	Marking	Zener Voltage Range(1)				Zener Impedance			Leakage Current	
		V_{ZT}(at I_{ZT})			I_{ZT}	Z_{ZT}	Z_{ZK}	at I_{ZK}	I_R(at V_R)	V_R
		Min	Nom	Max	mA	Ω	Ω	mA	uA	V
MM5Z2V0	WY	1.8	2.0	2.15	5	100	-	-	120	0.5
MM5Z2V2	WZ	2.08	2.2	2.33	5	100	-	-	120	0.7
MM5Z2V4	00	2.2	2.4	2.6	5	100	1000	1	120	1
MM5Z2V7	01	2.5	2.7	2.9	5	100	1000	1	120	1
MM5Z3V0	02	2.8	3.0	3.2	5	100	1000	1	50	1
MM5Z3V3	05	3.1	3.3	3.5	5	95	1000	1	20	1
MM5Z3V6	06	3.4	3.6	3.8	5	90	1000	1	10	1
MM5Z3V9	07	3.7	3.9	4.1	5	90	1000	1	5	1
MM5Z4V3	08	4	4.3	4.6	5	90	1000	1	5	1
MM5Z4V7	09	4.4	4.7	5	5	80	800	1	2	1
MM5Z5V1	0A	4.8	5.1	5.4	5	60	500	1	2	1.5
MM5Z5V6	0C	5.2	5.6	6	5	40	200	1	1	2.5
MM5Z6V2	0E	5.8	6.2	6.6	5	10	100	1	1	3
MM5Z6V8	0F	6.4	6.8	7.2	5	15	160	1	0.5	3.5
MM5Z7V5	0G	7	7.5	7.9	5	15	160	1	0.5	4
MM5Z8V2	0H	7.7	8.2	8.7	5	15	160	1	0.5	5
MM5Z9V1	0K	8.5	9.1	9.6	5	15	160	1	0.5	6
MM5Z10	0L	9.4	10	10.6	5	20	160	1	0.1	7

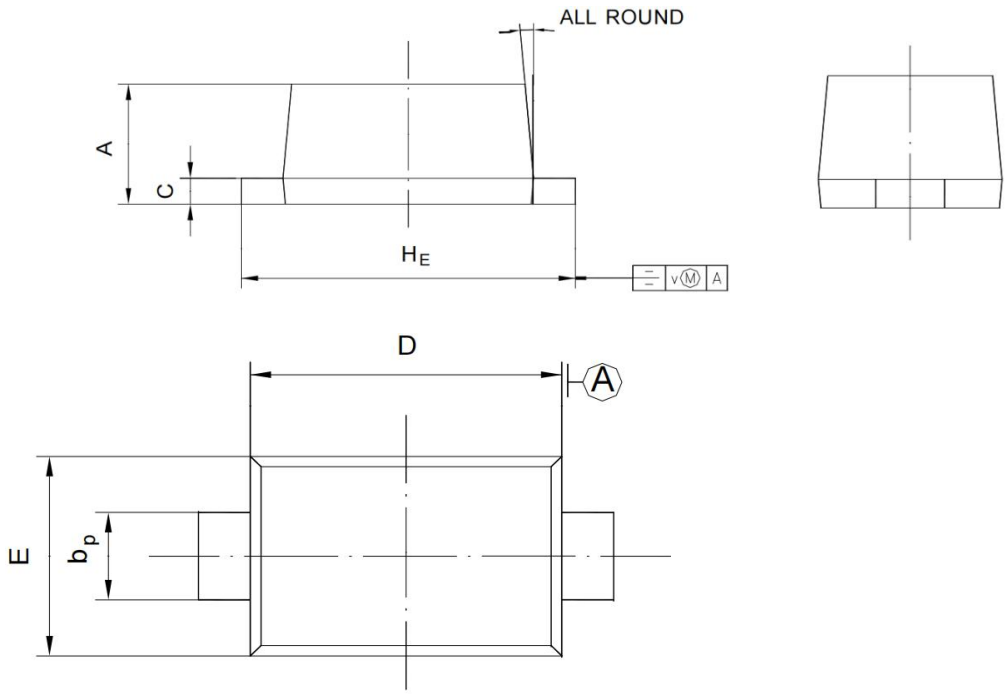
MM5Z11	0M	10.4	11	11.6	5	20	80	1	0.1	8
MM5Z12	0N	11.4	12	12.7	5	25	80	1	0.1	9
MM5Z13	0P	12.4	13	14.1	5	30	80	1	0.1	10
MM5Z15	0T	14.3	15	15.8	5	30	80	1	0.1	11
MM5Z16	0U	15.3	16	17.1	2	40	80	1	0.1	12
MM5Z18	0W	16.8	18	19.1	2	45	80	1	0.1	13
MM5Z20	0Z	18.8	20	21.2	2	55	100	1	0.1	15
MM5Z22	10	20.8	22	23.3	2	55	100	1	0.1	17
MM5Z24	11	22.8	24	25.6	2	70	120	1	0.1	19
MM5Z27	12	25.1	27	28.9	2	80	300	1	0.1	21
MM5Z30	14	28	30	32	2	80	300	1	0.1	23
MM5Z33	18	31	33	35	2	80	300	1	0.1	25
MM5Z36	19	34	36	38	2	90	500	1	0.1	27
MM5Z39	20	37	39	41	2	130	500	1	2	30
MM5Z43	21	40	43	46	1	150	500	1	2	33
MM5Z47	1A	44	47	50	1	170	500	1	2	36
MM5Z51	1C	48	51	54	1	180	500	1	1	39
MM5Z56	1D	52	56	60	1	200	500	1	1	43
MM5Z62	1E	58	62	66	1	215	500	1	0.2	47
MM5Z68	1F	64	68	72	1	240	500	1	0.2	52
MM5Z75	1G	70	75	79	1	255	500	1	0.2	57

Note: (1)Tested with pulses tp = 20ms

Package Information

SOD-523

Dimensions in mm



Unit	A	b_p	C	D	E	H_E	V	
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°

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