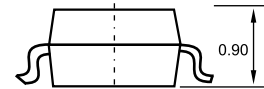
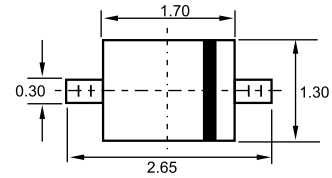




Lead-free

SOD-323



FEATURES

- Planar die construction
- General purpose, medium current
- Ideally suited for automated assembly processes

APPLICATIONS

- Zener diode
- Ultra-small surface mount package

Dimensions in inches and (millimeters)

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward Voltage @ I _F =10mA	V _F	0.9	V
Power Dissipation	P _d	200	mW
Thermal resistance, junction to ambient air	R _{θJA}	625	°C/W
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-65 to +150	°C

Notes: 1. Valid provided that device terminals are kept at ambient temperature.

2. Tested with pulses, t ≤ 1.0ms.



MMSZ5221BS-MMSZ5262BS

Surface mount zener diode

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Type Number	Zener Voltage Range			Test Current	Maximum Zener Impedance		Maximum Reverse Leakage Current	
	$V_Z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}=0.25mA$	I_R	@ V_R
	Nom(V)	Min(V)	Max(V)	mA	Ω		μA	V
MMSZ5221BS	2.4	2.28	2.52	20	30	1200	100	1.0
MMSZ5223BS	2.7	2.57	2.84	20	30	1300	75	1.0
MMSZ5225BS	3.0	2.85	3.15	20	30	1600	50	1.0
MMSZ5226BS	3.3	3.14	3.47	20	28	1600	25	1.0
MMSZ5227BS	3.6	3.42	3.78	20	24	1700	15	1.0
MMSZ5228BS	3.9	3.71	4.10	20	23	1900	10	1.0
MMSZ5229BS	4.3	4.09	4.52	20	22	2000	5.0	1.0
MMSZ5230BS	4.7	4.47	4.94	20	19	1900	5.0	2.0
MMSZ5231BS	5.1	4.85	5.36	20	17	1600	5.0	2.0
MMSZ5232BS	5.6	5.32	5.88	20	11	1600	5.0	3.0
MMSZ5233BS	6.0	5.70	6.30	20	7	1600	5.0	3.5
MMSZ5234BS	6.2	5.89	6.51	20	7	1000	5.0	4.0
MMSZ5235BS	6.8	6.46	7.14	20	5	750	3.0	5.0
MMSZ5236BS	7.5	7.13	7.88	20	6	500	3.0	6.0
MMSZ5237BS	8.2	7.79	8.61	20	8	500	3.0	6.5
MMSZ5238BS	8.7	8.27	9.14	20	8	600	3.0	6.5
MMSZ5239BS	9.1	8.65	9.56	20	10	600	3.0	7.0
MMSZ5240BS	10	9.50	10.50	20	17	600	3.0	8.0
MMSZ5241BS	11	10.45	11.55	20	22	600	2.0	8.4
MMSZ5242BS	12	11.40	12.60	20	30	600	1.0	9.1
MMSZ5243BS	13	12.35	13.65	9.5	13	600	0.5	9.9
MMSZ5245BS	15	14.25	15.75	8.5	16	600	0.1	11
MMSZ5246BS	16	15.20	16.80	7.8	17	600	0.1	12
MMSZ5248BS	18	17.10	18.90	7.0	21	600	0.1	14
MMSZ5250BS	20	19.00	21.00	6.2	25	600	0.1	15
MMSZ5251BS	22	20.90	23.10	5.6	29	600	0.1	17
MMSZ5252BS	24	22.80	25.20	5.2	33	600	0.1	18
MMSZ5254BS	27	25.65	28.35	5.0	41	600	0.1	21
MMSZ5255BS	28	26.60	29.40	4.5	44	600	0.1	21
MMSZ5256BS	30	28.50	31.5	4.2	49	600	0.1	23
MMSZ5257BS	33	31.35	34.65	3.8	58	700	0.1	25
MMSZ5258BS	36	34.20	37.80	3.4	70	700	0.1	27
MMSZ5259BS	39	37.05	40.95	3.2	80	800	0.1	30
MMSZ5260BS	43	40.85	45.15	3.0	93	900	0.1	33
MMSZ5261BS	47	44.65	49.35	2.7	105	1000	0.1	36

Type Number	Zener Voltage Range			Test	Maximum Zener		Maximum Reverse	
	$V_z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}=0.25mA$		
	Nom(V)	Min(V)	Max(V)	mA	Ω		Nom(V)	Min(V)
MMSZ5262BS	51	48.45	53.55	2.5	125	1100	0.1	39

Notes: 1. Valid provided that device terminals are kept at ambient temperature.

2. Tested with pulses, $t \leq 1.0ms$.

TYPICAL CHARACTERISTICS @ $T_a=25^\circ C$ unless otherwise specified

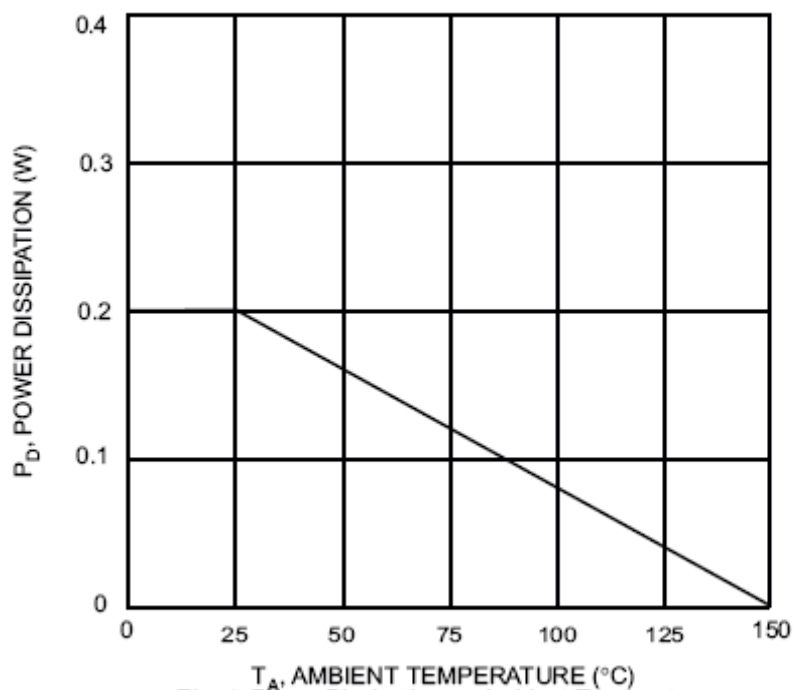


Fig. 1 Power Dissipation vs Ambient Temperature