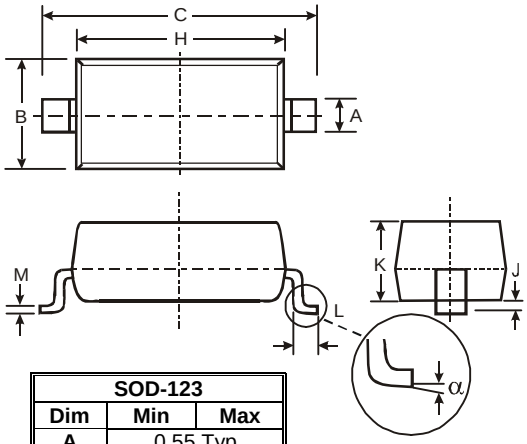
MMSZ5221-MMSZ5259

500mW Surface Mount Zener Diodes

Features

- Complete Voltage Range 2.4to 39 Volts
- Planar Die construction
- Ideally Suited for Automated Assembly Processes



SOD-123		
Dim	**Min**	**Max**
A	0.55 Typ	
B	1.40	1.70
C	3.55	3.85
H	2.55	2.85
J	0.00	0.10
K	1.00	1.35
L	0.25	0.40
M	0.10	0.15
α	0	8°
All Dimensions in mm		

Mechanical Data

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Approx. Weight: 0.009 grams
- Mounting Position: Any
- Storage & Operating Temperature: -55°C to +150°C

Maximum Ratings and Electrical Characteristics

@ T_A = 25°C unless otherwise specified

	SYMBOL	*VALUE*	*UNIT*
Zener Current (see Table "Characteristics")			
Power Dissipation at T_L = 75°C	P_{tot}	500(1)	mW
Maximum Junction Temperature	T_j	150	°C
Storage Temperature Range	T_S	-65 to +175	°C

	SYMBOL	*MIN.*	*TYP.*	*MAX.*	*UNIT*
Thermal Resistance Junction to Ambient Air	$R_{\Theta JA}$	–	–	340(1)	°C/W
Forward Voltage at I_F = 10 mA	V_F	–	–	0.9	Volts

Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC PART NUMBER	Marking	NORMAL ZENER VOLTAGE Vz@ Izt	TEST CURRENT Izt	MAXIMUM ZENER IMPEDANCE Zzt @ Izt	Zzk @ Izk=0.25mA	MAXIMUM REVERSE LEAKAGE CURRENT Ir @ Vr		MAXIMUM ZENER VOLTAGE TEMP
		VOLTS	mA	OHMS	OHMS	uA	VOLTS	%/°C
MMSZ5221	C1	2.4	20	30	1200	100	1.0	-0.085
MMSZ5222	C2	2.5	20	30	1250	100	1.0	-0.085
MMSZ5223	C3	2.7	20	30	1300	75	1.0	-0.080
MMSZ5225	C5	3.0	20	29	1600	50	1.0	-0.075
MMSZ5226	G1/D1	3.3	20	28	1600	25	1.0	-0.070
MMSZ5227	G2/D2	3.6	20	24	1700	15	1.0	-0.065
MMSZ5228	G3/D3	3.9	20	23	1900	10	1.0	-0.060
MMSZ5229	G4/D4	4.3	20	22	2000	5.0	1.0	±0.055
MMS Z5230	G5/ D5	4.7	2	19	1900	5.0	2.0	±0.030
MMSZ5231	E1	5.1	20	17	1600	5.0	2.0	±0.030
MMSZ5232	E2	5.6	20	11	1600	5.0	3.0	+0.038
MMSZ5233	E3	6.0	20	7.0	1600	5.0	3.5	+0.040
MMSZ5234	E4	6.2	20	7.0	1000	5.0	4.0	+0.045
MMSZ5235	E5	6.8	20	5.0	750	3.0	5.0	+0.050
MMSZ5236	F1	7.5	20	6.0	500	3.0	6.0	+0.058
MMSZ5237	F2	8.2	20	8.0	500	3.0	6.5	+0.062
MMSZ5239	F4	9.1	20	10	600	3.0	7.0	+0.068
MMSZ5240	F5	10	20	17	600	3.0	8.0	+0.075
MMSZ5241	H1	11	20	22	600	2.0	8.4	+0.076
MMSZ5242	H2	12	20	30	600	1.0	9.1	+0.077
MMSZ5243	H3	13	9.5	13	600	0.5	9.9	+0.079
MMSZ5244	H4	14	9.0	15	600	0.1	10.5	+0.081
MMSZ5245	H5	15	8.5	16	600	0.1	11	+0.082
MMSZ5246	J1	16	7.8	17	600	0.1	12	+0.083
MMSZ5248	J3	18	7.0	21	600	0.1	14	+0.085
MMSZ5250	J5	20	6.2	25	600	0.1	15	+0.086
MMSZ5251	K1	22	5.6	29	600	0.1	17	+0.087
MMSZ5252	K2	24	5.2	33	600	0.1	18	+0.088
MMSZ5254	K4	27	4.6	41	600	0.1	21	+0.090
MMSZ5255	K5	28	4.5	44	600	0.1	21	+0.091
MMSZ5256	M1	30	4.2	49	600	0.1	23	+0.091
MMSZ5257	M2	33	3.8	58	700	0.1	25	+0.092
MMSZ5258	M3	36	3.4	70	700	0.1	27	+0.093
MMSZ5259	M4	39	3.2	80	800	0.1	30	+0.094