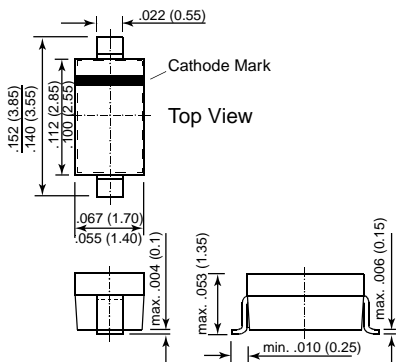


ADVANCED INFORMATION

MMSZ4681 THRU MMSZ4717

ZENER DIODES

SOD-123



Dimensions in inches and (millimeters)

FEATURES

- ◆ Silicon Planar Zener Diodes
- ◆ Standard Zener voltage tolerance is $\pm 5\%$. Other tolerances are available upon request.
- ◆ High temperature soldering guaranteed: 250°C/10 seconds set terminals.
- ◆ These diodes are also available in DO-35 case with type designation 1N4681 ... 1N4717 and SOT-23 case with the type designation MMBZ4681 ... MMBZ4717.



MECHANICAL DATA

Case: SOD-123 Plastic Case

Weight: approx. 0.01 g

Terminals: Solderable per MIL-STD-750, method 2026.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOL	VALUE	UNIT
Zener Current (see Table "Characteristics")			
Power Dissipation at $T_L = 75^\circ\text{C}$	P_{tot}	500 ⁽¹⁾	mW
Maximum Junction Temperature	T_j	150	°C
Storage Temperature Range	T_s	-55 to +150	°C

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

NOTES:

(1) FR-4 or FR-5 board with minimum recommended solder pad layout.

MMSZ4681 THRU MMSZ4717

ELECTRICAL CHARACTERISTICS

T_A = 25°C unless otherwise specified

Type	Marking Code	Zener Voltage ⁽¹⁾ V _Z @ I _{ZT} = 50μA (Volts)			Max Reverse Current I _R (μA)	Test Voltage V _R (Volts)
		Nominal	Min	Max		
MMSZ4681	CF	2.4	2.28	2.52	2.00	1.0
MMSZ4682	CH	2.7	2.57	2.84	1.00	1.0
MMSZ4683	CJ	3.0	2.85	3.15	0.80	1.0
MMSZ4684	CK	3.3	3.14	3.47	7.50	1.5
MMSZ4685	CM	3.6	3.42	3.78	7.50	2.0
MMSZ4686	CN	3.9	3.71	4.10	5.00	2.0
MMSZ4687	CP	4.3	4.09	4.52	4.00	2.0
MMSZ4688	CT	4.7	4.47	4.94	10.0	3.0
MMSZ4689	CU	5.1	4.85	5.36	10.0	3.0
MMSZ4690	CV	5.6	5.32	5.88	10.0	4.0
MMSZ4691	CA	6.2	5.89	6.51	10.0	5.0
MMSZ4692	CX	6.8	6.46	7.14	10.0	5.1
MMSZ4693	CY	7.5	7.13	7.88	10.0	5.7
MMSZ4694	CZ	8.2	7.79	8.61	1.00	6.2
MMSZ4695	DC	8.7	8.27	9.14	1.00	6.6
MMSZ4696	DD	9.1	8.65	9.56	1.00	6.9
MMSZ4697	DE	10.0	9.50	10.5	1.00	7.6
MMSZ4698	DF	11.0	10.5	11.6	0.05	8.4
MMSZ4699	DH	12.0	11.4	12.6	0.05	9.1
MMSZ4700	DJ	13.0	12.4	13.7	0.05	9.8
MMSZ4701	DK	14.0	13.3	14.7	0.05	10.6
MMSZ4702	DM	15.0	14.3	15.8	0.05	11.4
MMSZ4703	DN	16.0	15.2	16.8	0.05	12.1
MMSZ4704	DP	17.0	16.2	17.9	0.05	12.9
MMSZ4705	DT	18.0	17.1	18.9	0.05	13.6
MMSZ4706	DU	19.0	18.1	20.0	0.05	14.4
MMSZ4707	DV	20.0	19.0	21.0	0.01	15.2
MMSZ4708	DA	22.0	20.9	23.1	0.01	16.7
MMSZ4709	DZ	24.0	22.8	25.2	0.01	18.2
MMSZ4710	DY	25.0	23.8	26.3	0.01	19.0
MMSZ4711	EA	27.0	25.7	28.4	0.01	20.4
MMSZ4712	EC	28.0	26.6	29.4	0.01	21.2
MMSZ4713	ED	30.0	28.5	31.5	0.01	22.8
MMSZ4714	EE	33.0	31.4	34.7	0.01	25.0
MMSZ4715	EF	36.0	34.2	37.8	0.01	27.3
MMSZ4716	EH	39.0	37.1	41.0	0.01	29.6
MMSZ4717	EJ	43.0	40.9	45.2	0.01	32.6

NOTES:

(1) Measured with device junction in thermal equilibrium