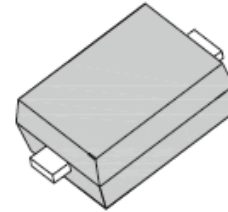


## 500mW Two Terminals SMD Zener Diodes

### Features

- Silicon Planar Zener Construction
- 500mW Power Dissipation
- Zener Voltage 3.6v to 43v
- High Temperature Soldering Guaranteed:  
250 °C/10 Seconds Set Terminals
- RoHS Compliance



SOD-123F



### Mechanical Data

<b>Case:</b>	SOD-123F, molded plastic
<b>Epoxy:</b>	Plastic package has UL flammability 94V-0
<b>Terminals:</b>	Solderable per MIL-STD-202G, Method 208
<b>Polarity:</b>	Color band denotes cathode
<b>Approx Weight:</b>	0.01 grams

### Maximum Ratings *(T<sub>Ambient</sub>=25°C unless noted otherwise)*

Symbol	Description	Value	Unit	Conditions
<b>P<sub>tot</sub></b>	Power Dissipation	500	mW	T <sub>L</sub> =75 °C (Note 1)
<b>R<sub>thJA</sub></b>	Thermal Resistance Junction to Ambient Air	340	°C/W	(Note 1)
<b>T<sub>J</sub></b>	Max. Junction Temperature	150	°C	
<b>T<sub>STG</sub></b>	Storage Temperature Range	-55 to 150	°C	

**Note:** 1. FR-4 or FR-5 board with minimum recommended solder pad layout.

## 500mW Two Terminals SMD Zener Diodes

### MMSZ4685-F - MMSZ4717-F

#### Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

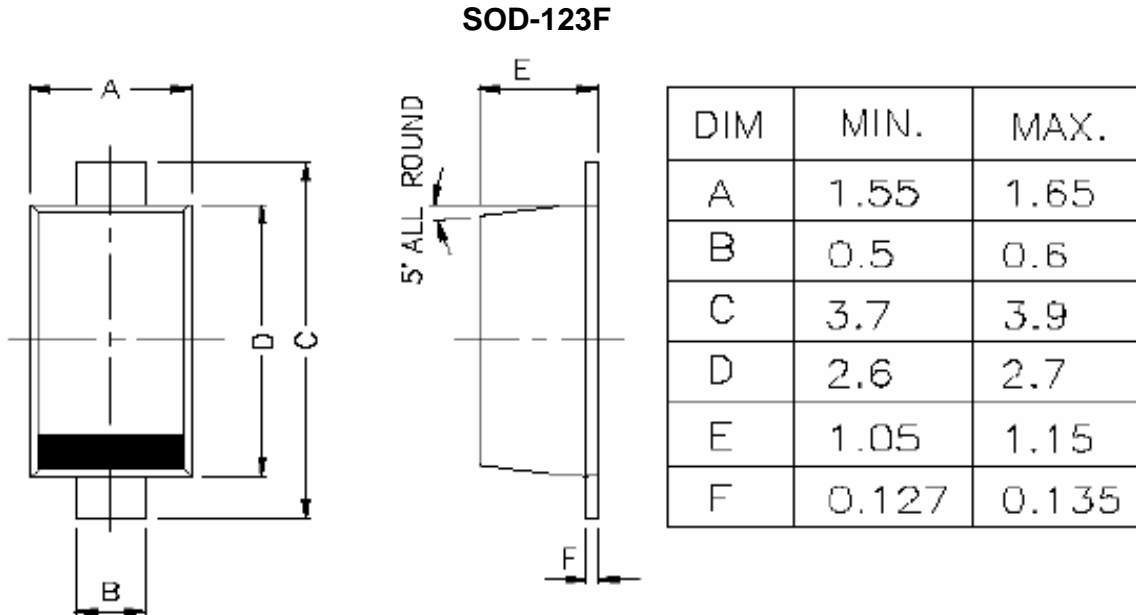
Part NO.	Marking Code	*Nominal Zener Voltage @ I <sub>ZT</sub>			Test Current	Max. Reverse Leakage Current I <sub>R</sub> @ V <sub>R</sub>	
		V <sub>Z</sub> (V)			I <sub>ZT</sub> (mA)	I <sub>R</sub> (μA)	V <sub>R</sub> (V)
		Nom.	Min.	Max.			
MMSZ4685-F	CM	3.6	3.42	3.78	0.05	7.50	2.0
MMSZ4686-F	CN	3.9	3.71	4.10	0.05	5.00	2.0
MMSZ4687-F	CP	4.3	4.09	4.52	0.05	4.00	2.0
MMSZ4688-F	CT	4.7	4.47	4.94	0.05	10.0	3.0
MMSZ4689-F	CU	5.1	4.85	5.36	0.05	10.0	3.0
MMSZ4690-F	CV	5.6	5.32	5.88	0.05	10.0	4.0
MMSZ4691-F	CA	6.2	5.89	6.51	0.05	10.0	5.0
MMSZ4692-F	CX	6.8	6.46	7.14	0.05	10.0	5.1
MMSZ4693-F	CY	7.5	7.13	7.88	0.05	10.0	5.7
MMSZ4694-F	CZ	8.2	7.79	8.61	0.05	1.00	6.2
MMSZ4695-F	DC	8.7	8.27	9.14	0.05	1.00	6.6
MMSZ4696-F	DD	9.1	8.65	9.56	0.05	1.00	6.9
MMSZ4697-F	DE	10	9.5	10.5	0.05	1.00	7.6
MMSZ4698-F	DF	11	10.5	11.6	0.05	0.05	8.4
MMSZ4699-F	DH	12	11.4	12.6	0.05	0.05	9.1
MMSZ4700-F	DJ	13	12.4	13.7	0.05	0.05	9.8
MMSZ4701-F	DK	14	13.3	14.7	0.05	0.05	10.6
MMSZ4702-F	DM	15	14.3	15.8	0.05	0.05	11.4
MMSZ4703-F	DN	16	15.2	16.8	0.05	0.05	12.1
MMSZ4704-F	DP	17	16.2	17.9	0.05	0.05	12.9
MMSZ4705-F	DT	18	17.1	18.9	0.05	0.05	13.6
MMSZ4706-F	DU	19	18.1	20.0	0.05	0.05	14.4
MMSZ4707-F	DV	20	19.0	21.0	0.05	0.01	15.2
MMSZ4708-F	DA	22	20.9	23.1	0.05	0.01	16.7
MMSZ4709-F	DZ	24	22.8	25.2	0.05	0.01	18.2
MMSZ4710-F	DY	25	23.8	26.3	0.05	0.01	19.0
MMSZ4711-F	EA	27	25.7	28.4	0.05	0.01	20.4
MMSZ4712-F	EC	28	26.6	29.4	0.05	0.01	21.2
MMSZ4713-F	ED	30	28.5	31.5	0.05	0.01	22.8
MMSZ4714-F	EE	33	31.4	34.7	0.05	0.01	25.0
MMSZ4715-F	EF	36	34.2	37.8	0.05	0.01	27.3
MMSZ4716-F	EH	39	37.1	41.0	0.05	0.01	29.6
MMSZ4717-F	EJ	43	40.9	45.2	0.05	0.01	32.6

\*Measured with device junction in thermal equilibrium

# 500mW Two Terminals SMD Zener Diodes

## MMSZ4685-F - MMSZ4717-F

### Dimensions in mm



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