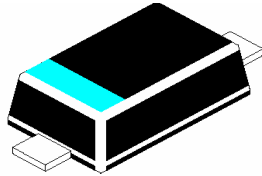


**SILICON PLANAR ZENER DIODES**

**MMSZ4685 - MMSZ4717**



**SOD-123  
PLASTIC PACKAGE**

**ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)**

DESCRIPTION	SYMBOL	VALUE	UNIT
Power Dissipation at T <sub>L</sub> =75°C	*P <sub>tot</sub>	500	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150	°C

\*FR-4 or FR5 board with minimum recommended solder pad layout

Thermal Resistance Junction to Ambient Air	*R <sub>th(j-a)</sub>	340	°C/W
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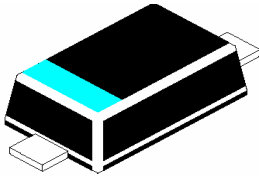
**ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless specified otherwise)**

Forward Voltage at I<sub>F</sub>=10mA      V<sub>F</sub> <0.9 V      Tolerance +/- 5%

Type	**Zener Voltage V <sub>Z</sub> (V) at I <sub>ZT</sub> =50mA			Max Reverse Leakage Current I <sub>R</sub> mA	Test Voltage V <sub>R</sub> V	Marking Code
	Nom V	Min V	Max V			
MMSZ4685	3.6	3.42	3.78	7.5	2.0	CM
MMSZ4686	3.9	3.71	4.10	5.0	2.0	CN
MMSZ4687	4.3	4.09	4.52	4.0	2.0	CP
MMSZ4688	4.7	4.47	4.94	10	3.0	CT
MMSZ4689	5.1	4.85	5.36	10	3.0	CU
MMSZ4690	5.6	5.32	5.88	10	4.0	CV
MMSZ4691	6.2	5.89	6.51	10	5.0	CA
MMSZ4692	6.8	6.46	7.14	10	5.1	CX
MMSZ4693	7.5	7.13	7.88	10	5.7	CY
MMSZ4694	8.2	7.79	8.61	1.0	6.2	CZ
MMSZ4695	8.7	8.27	9.14	1.0	6.6	DC
MMSZ4696	9.1	8.65	9.56	1.0	6.9	DD
MMSZ4697	10	9.50	10.50	1.0	7.6	DE
MMSZ4698	11	10.50	11.60	0.05	8.4	DF
MMSZ4699	12	11.40	12.60	0.05	9.1	DH
MMSZ4700	13	12.40	13.70	0.05	9.8	DJ
MMSZ4701	14	13.30	14.70	0.05	10.6	DK
MMSZ4702	15	14.30	15.80	0.05	11.4	DM
MMSZ4703	16	15.20	16.80	0.05	12.1	DN
MMSZ4704	17	16.20	17.90	0.05	12.9	DP

\*\*Measured with device junction in thermal equilibrium

MMSZ4685\_4717Rev090507E



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ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$  unless specified otherwise)

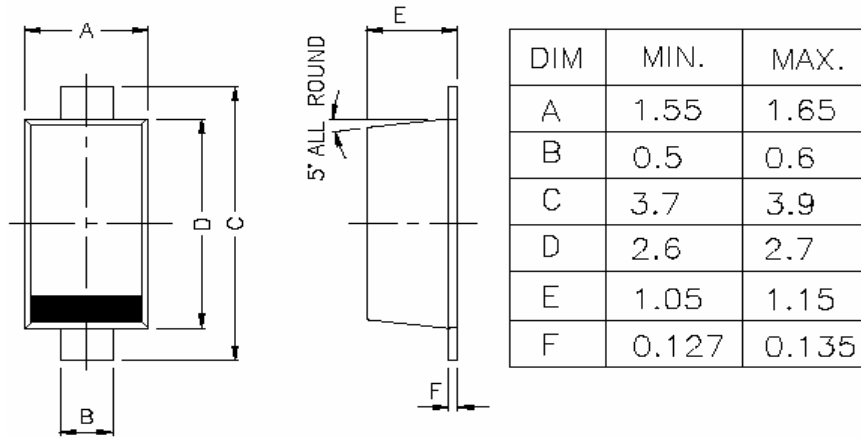
Forward Voltage at  $I_F=10\text{mA}$        $V_F < 0.9$  V      Tolerance +/- 5%

Type	**Zener Voltage $V_Z$ (V) at $I_{ZT}=50\text{mA}$			Max Reverse Leakage Current $I_R$ mA	Test Voltage $V_R$ V	Marking code
	Nom	Min	Max			
	V	V	V			
<b>MMSZ4705</b>	18	17.10	18.90	0.05	13.6	DT
<b>MMSZ4706</b>	19	18.10	20.00	0.05	14.4	DU
<b>MMSZ4707</b>	20	19.00	21.00	0.01	15.2	DV
<b>MMSZ4708</b>	22	20.90	23.10	0.01	16.7	DA
<b>MMSZ4709</b>	24	22.80	25.20	0.01	18.2	DZ
<b>MMSZ4710</b>	25	23.80	26.30	0.01	19.0	DY
<b>MMSZ4711</b>	27	25.70	28.40	0.01	20.4	EA
<b>MMSZ4712</b>	28	26.60	29.40	0.01	21.2	EC
<b>MMSZ4713</b>	30	28.50	31.50	0.01	22.8	ED
<b>MMSZ4714</b>	33	31.40	34.70	0.01	25.0	EE
<b>MMSZ4715</b>	36	34.20	37.80	0.01	27.3	EF
<b>MMSZ4716</b>	39	37.10	41.00	0.01	29.6	EH
<b>MMSZ4717</b>	43	40.90	45.20	0.01	32.6	EJ

\*\*Measured with device junction in thermal equilibrium

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PACKAGE SOD-123 FL



All dimensions are in mm  
CATHODE IS MARKED BY BAND

**Component Disposal Instructions**

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

**Disclaimer**

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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