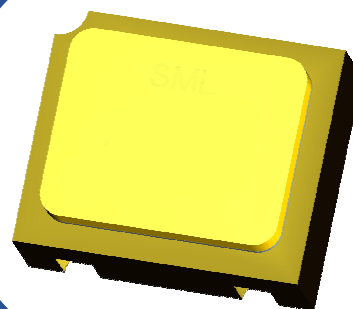


ZENER DIODE

1N4626CSM

- $V_Z = 5.6V$
- Low Leakage
- Low Current
- Standard $\pm 5\%$ Zener Voltage Tolerance
- Hermetic Ceramic Surface Mount Package
- Screening Options Available



ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ C$ unless otherwise stated)

P_T	Total Power Dissipation at $T_A = 25^\circ C$ Derate above $25^\circ C$	350mW 2.0mW/ $^\circ C$
I_{ZM}	Zener Current	50mA
T_J	Junction Temperature Range	-65 to $+175^\circ C$
T_{STG}	Storage Temperature Range	-65 to $+175^\circ C$
T_{SP}	Maximum Soldering Pad Temperature for 20s	$260^\circ C$

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ C$ unless otherwise stated)

Symbols	Parameters	Test Conditions	Min	Typ	Max	Units
V_Z	Zener Voltage	$I_{ZT} = 250\mu A$	5.32	5.6	5.88	V
V_F	Forward Voltage	$I_F = 200mA$			1.1	
$Z_{ZT}^{(1)}$	Maximum Zener Impedance	$I_{ZT} = 250\mu A$			1400	Ω
I_R	Reverse Current	$V_R = 4V$ $T_A = 150^\circ C$			5 10	μA
N_D	Noise Density	$I_{ZT} = 250\mu A$			4	$\mu V/\sqrt{Hz}$
$\alpha V_Z^{(2)}$	Temperature Coefficient of Zener Voltage [†]	$I_{ZT} = 250\mu A$			+0.04	%/ $^\circ C$

THERMAL PROPERTIES

Symbols	Parameters	Max.	Units
$R_{\theta JA}$	Thermal Resistance, Junction To Ambient	500	$^\circ C/W$

Notes

- (1) Z_{ZT} the zener impedance is derived from the 1KHz voltage created when an AC current with RMS value of $\pm 10\%$ of DC zener test current is superimposed on the test current I_{ZT} .
- (2) Temperature coefficient of regulator voltage. The device shall be temperature stabilised with current applied prior to reading Zener voltage at the specified ambient temperature as specified. Verified by design. Not a production test.

Semelab Limited reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.

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Issue 3

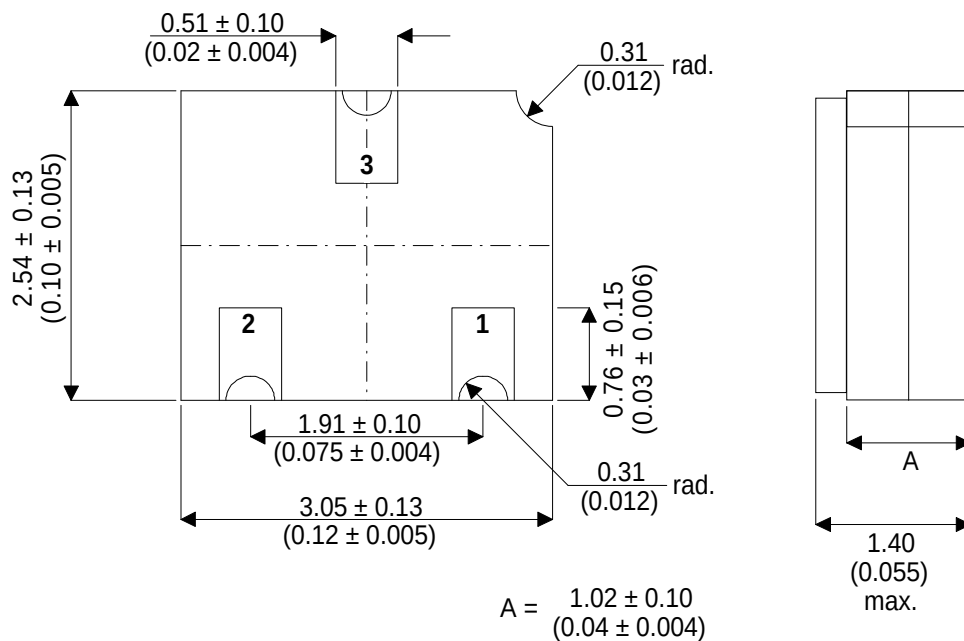
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ZENER DIODE

1N4626CSM

MECHANICAL DATA

Dimensions in mm (inches)



LCC1
(SOT23 Compatible)

Underside View

Pad 1 - Anode

Pad 2 - N/C

Pad 3 - Cathode