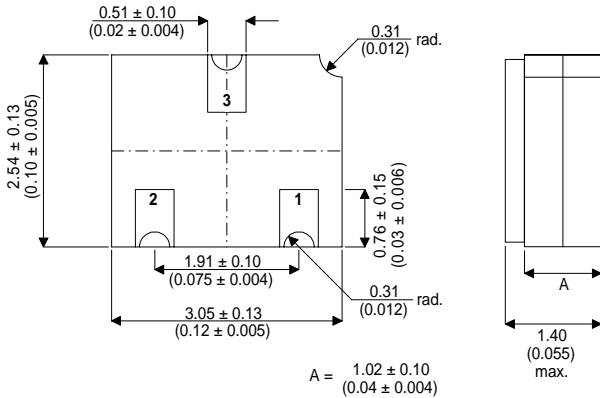


MECHANICAL DATA

Dimensions in mm(inches)



**LCC1 PACKAGE
(SOT23 Compatible)**

Underside View

Pad 1 – Anode Pad 2 – N/C Pad 3 – Cathode

**ZENER DIODE IN A
CERAMIC SURFACE MOUNT
PACKAGE
FOR HI-REL APPLICATIONS**

FEATURES

- HERMETIC CERAMIC SURFACE MOUNT PACKAGE
- SCREENING OPTIONS AVAILABLE

ABSOLUTE MAXIMUM RATINGS

P_{TOT}	Power Dissipation	$T_{AMB} = 25^{\circ}C$	500mW
	Derate above 25°C		2.85mW/°C
T_{OP}	Maximum Operating Ambient Temperature		-65 to +200°C
T_{STG}	Storage Temperature Range		-65 to +200°C
$R_{\theta JA}$	Thermal Resistance Junction to Ambient		350°C/W

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

Parameter	Test Conditions	Min.	Typ.	Max.	Units	
V_{ZT}	Zener Voltage	$I_{ZT} = 250\mu A @ T_A$	11.4	12.0	12.6	V
V_{FT}	Forward Voltage	$I_F = 200mA$	1.1			
Z_{ZMT}^*	Maximum Regulator Impedance	$I_{ZT} = 250\mu A @ T_A$		200		Ω
I_{ZM}	Maximum Rated Current	$P_{TOT} = 500mW, V_{ZT} = 12.6V$		39.5		mA
I_R	Reverse Current	$V_R = 9.12V$		0.05		μA
α_{VZ}	Temp Coefficient of Zener Voltage			0.065		%/°C

* Z_{ZMT} , 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}

Semelab Plc 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.