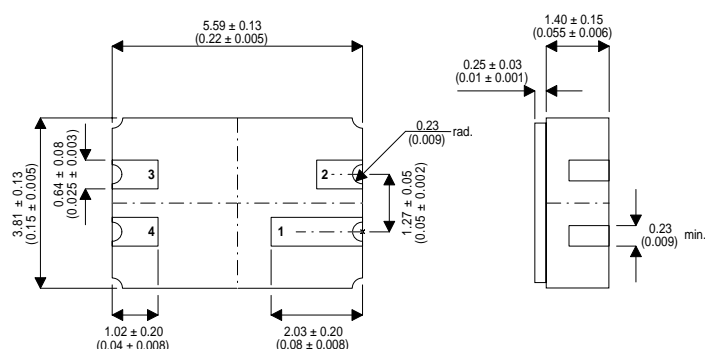


MECHANICAL DATA

Dimensions in mm



LCC3 HERMETICALLY SEALED CERAMIC SURFACE MOUNT PACKAGE

PIN 1 n/c
PIN 2 V+

PIN 3 adj
PIN 4 V-

PRECISION 5V SHUNT REGULATOR DIODE IN A CERAMIC SURFACE MOUNT PACKAGE

FEATURES

- **Adjustable 4V to 6V**
- **Low Temperature Coefficient**
- **Wide Operating Current 600μA to 10mA**
- **0.6Ω Dynamic Impedance**
- **± 1% Initial Tolerance Available**

ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)

I_R	Reverse Current	15mA
I_F	Forward Current	10mA
T_{case}	Operating Temperature Range	– 55°C to +150°C
T_{STG}	Storage Temperature	– 60°C to +150°C

ELECTRICAL CHARACTERISTICS (T_A = 25 °C unless otherwise stated)

Parameter	Test Conditions	LM136CSM4-5V LM136ACSM4-5V			Units
		Min.	Typ.	Max.	
Reverse Breakdown Voltage	T _A = 25°C I _R =1mA LM136CSM4-5V LM136ACSM4-5V	4.90	5.00	5.10	V
		4.95	5.00	5.05	
Reverse Breakdown Change with Current	T _A = 25°C 600µA ≤ I _R ≤ 10mA		6	12	mV
Reverse Dynamic Impedance	T _A = 25°C I _R =1mA f = 100Hz		0.6	1.2	Ω
Temperature StabilityNote 2	V _R Adjusted 5.00V I _R =1mA – 55°C ≤ T _A ≤ +125°C		20	36	mV
Adjustment Range			±1		V
Reverse Dynamic Impedance	I _R =1mA		0.8	1.6	Ω
Long Term Stability	T _A = 25°C±0.1°C I _R =1mA t =1000hrs		20		ppm

Note 2.

Temperature stability is guaranteed by design. Design limits are guaranteed (but not 100% function tested) over the indicated temperature and supply voltage ranges. These limits are not used to calculate outgoing quality levels. Stability is defined as the maximum change in V_{XX} FROM 25°C to T_A (MIN) or T_A (MAX).