

2.45 volt precision reference regulator

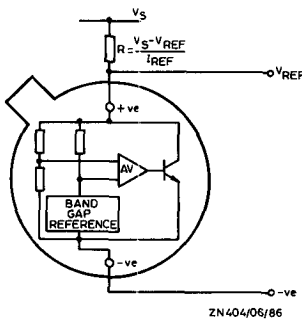
ZN404

FEATURES

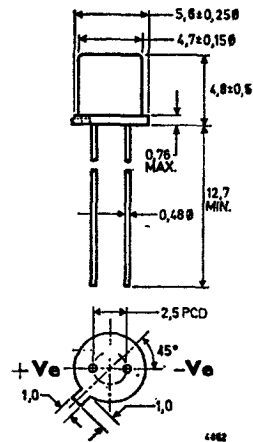
- Low temperature coefficient
- Low slope resistance
- Very good long term stability
- Low noise
- Internally shaped
- Tight tolerance
- Two pin package

DESCRIPTION

The ZN404 is a monolithic integrated circuit providing a precise stable regulator source of 2.45V in a two lead package without the need for an external shaping capacitor.



Circuit diagram



Lead configuration
Dimensions in millimetres

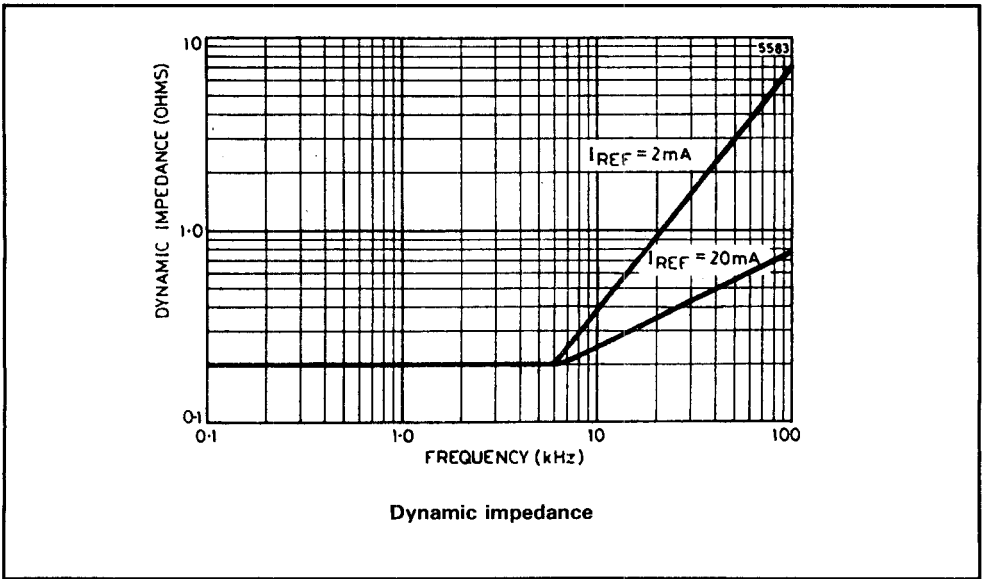
ZN404

ABSOLUTE MAXIMUM RATINGS

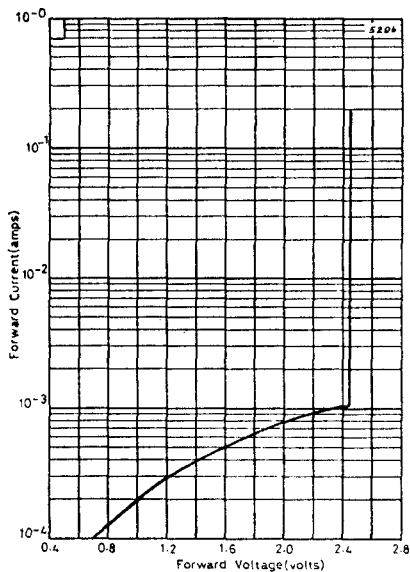
Dissipation	300mW
Operating temperature range	0 to +70°C
Storage temperature range	-55 to +125°C

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$ unless otherwise specified).

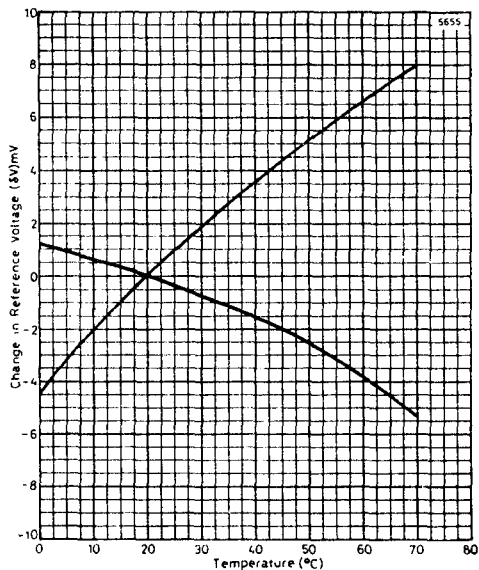
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test conditions
Output voltage	V_{REF}	2.38	2.45	2.52	V	Measured at 2mA
Slope resistance	R_{REF}	-	0.2	0.4	Ω	
Reference current	I_{REF}	2	-	120	mA	
Maximum change in V_{REF}	ΔV_{REF}	-	6	25	mV	0 to +70°C
RMS noise voltage 1Hz-10kHz		-	10	-	μV	
V_{REF} drift at 70°C		-	± 10	-	ppm/1000 hours	



**Forward characteristic
(typical)**



**Temperature characteristic
(typical)**



ZN404

Derating curve

