



T-58-07

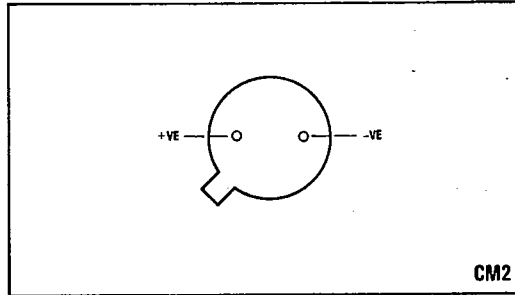
ZN404

2.45V PRECISION REFERENCE REGULATOR

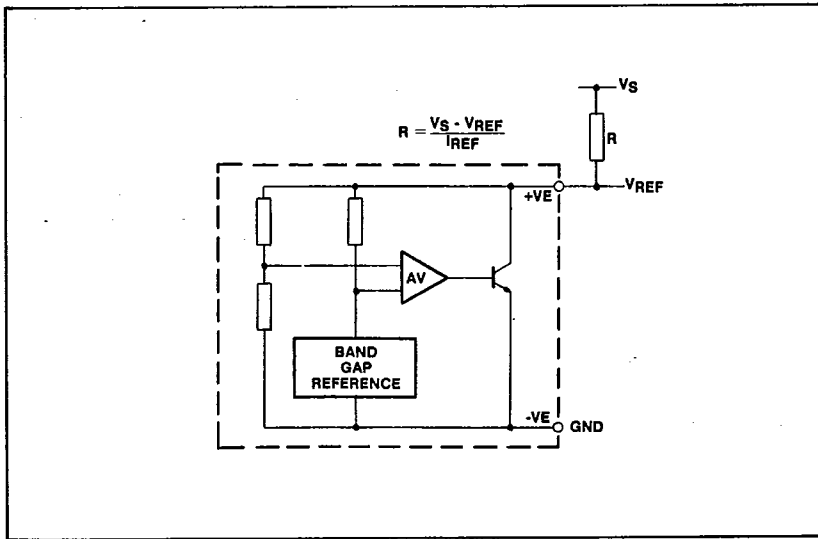
The ZN404 is a monolithic integrated circuit providing a precise stable regulator source of 2.45V in a two lead package without the need for an external shaping capacitor.

FEATURES

- Low Temperature Coefficient
- Low Slope Resistance
- Very Good Long Term Stability
- Low Noise
- Internally Shaped
- Tight Tolerance
- Two Pin Package



Pin connections - bottom view



Circuit diagram

$$R = \frac{V_s - V_{REF}}{I_{REF}}$$

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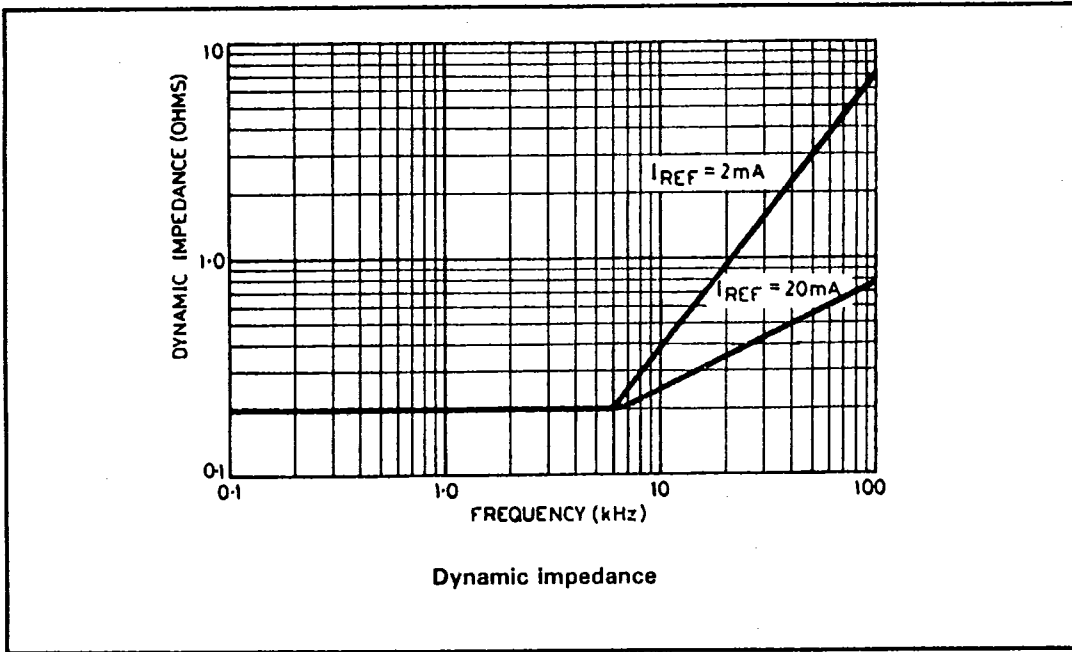
ABSOLUTE MAXIMUM RATINGS

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

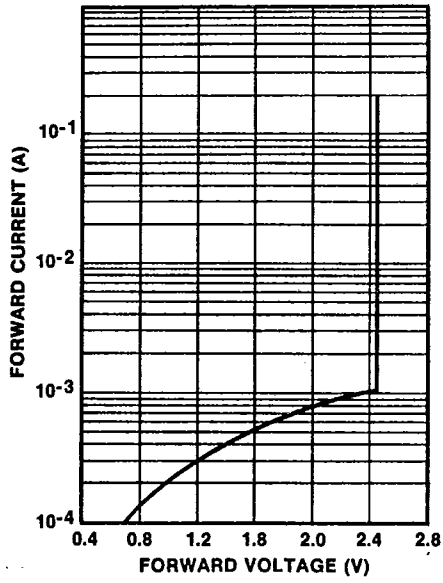
ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$ unless otherwise specified).

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	

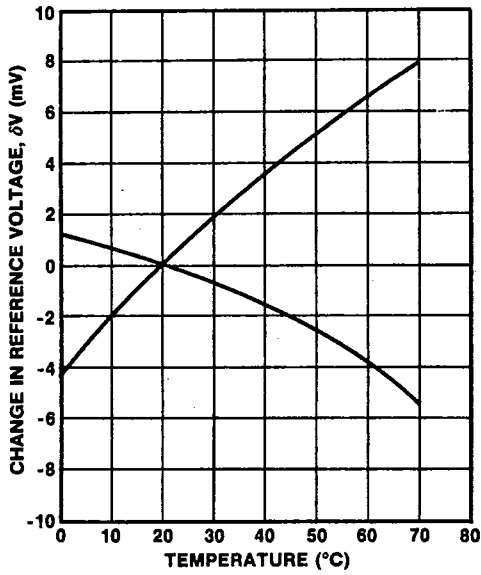


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Forward characteristic
(typical)



Temperature characteristic
(typical)



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Derating curve

