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NTE615P Integrated Circuit Voltage Stabilizer for Electronic Tuner

Description:

The NTE615P is a monolithic integrated voltage stabilizer in a TO92 type package designed for use as a voltage supplier for electronic tuners.

Features:

- Low Temperature Coefficient
- Low Dynamic Resistance
- Typical Reference Voltage of 33V

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Zener Current, I_Z	10mA
Power Dissipation ($T_A = +75^\circ\text{C}$), P_D	200mW
Operating Ambient Temperature Range, T_{opr}	-20° to $+75^\circ\text{C}$
Storage Temperature range, T_{stg}	-40° to $+125^\circ\text{C}$

Electrical Characteristics: ($I_Z = 5\text{mA}$, $T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Stabilized Voltage	V_Z		31	—	35	V
Stabilized Voltage Temperature Drift	$\Delta V_Z/\Delta T$	$T_A = -20^\circ$ to $+75^\circ\text{C}$	-1.0	0	+1.0	mV/ $^\circ\text{C}$
Dynamic Resistance	r_Z	$I_{AC} = 0.5\text{mA}$, $f = 1\text{kHz}$	—	10	25	Ω

