

NTE1905 Integrated Circuit Negative 3 Terminal Voltage Regulator, –15V, 100mA

Description:

The NTE1905 voltage regulator is an inexpensive, easy-to-use device in a TO92 type package suitable for a multitude of applications that require a regulated supply of up to 100mA. This device features internal current limiting and thermal shutdown making the NTE1905 remarkably rugged. No external components are required in many applications.

The NTE1905 offers a substantial performance advantage over the traditional zener diode-resistor combination, as output impedance and quiescent current are substantially reduced.

Features:

- Low Cost
- ±5% Tolerance
- Internal Short–Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required

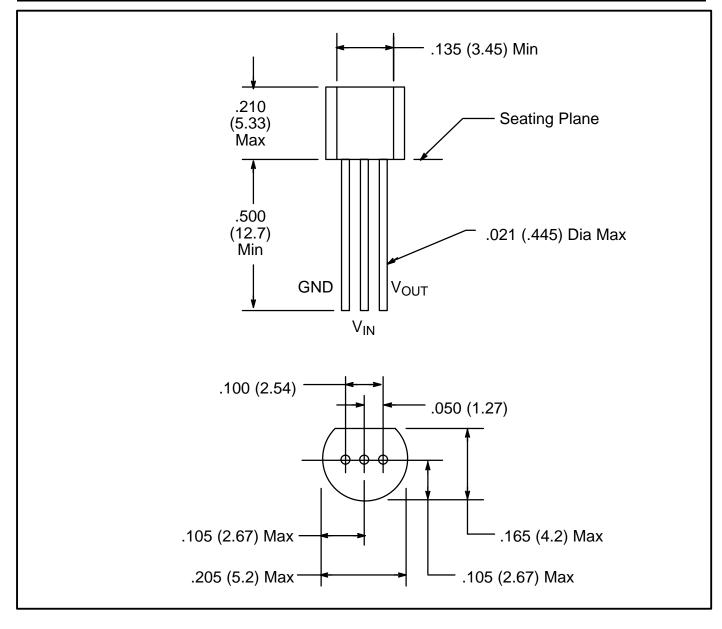
Absolute Maximum Ratings: ($T_A = +25^{\circ}C$ unless otherwise specified)

Input Voltage, V _I	
Operating Junction Temperature Range, T _J	. 0° to +150°C
Storage Junction Temperature Range, T _{stg} –	-65° to +150°C

Electrical Characteristics:	$(V_I = -33V, I_O = 40mA, C_I = 0.33\mu F, C_O = 0.1\mu F, 0^{\circ} < T_J < +125^{\circ}C$
	unless otherwise specified)

Parameter	Symbol	Test Conditions		Min	Тур	Max	Unit
Output Voltage	Vo	$T_J = +25^{\circ}C$		-14.4	-15	-15.6	V
		$-17.5V \ge V_I \ge -30V$, $1.0mA \le I_O \le 40mA$		-14.25	_	-15.75	V
		$V_I = -23V$, $1.0mA \le I_O \le 70mA$		-14.25	-	-15.75	V
Line Regulation	Reg _{line}	T _J = +25°C	$-17.5V \ge V_I \ge -30V$	—	_	300	mV
			$-20V \geq V_l \geq -30V$	_	1	250	mV

Parameter	Symbol	Test Conditions			Тур	Max	Unit
Load Regulation	Reg _{load}	T _J = +25°C	$1.0mA \le I_O \le 100mA$	-	-	150	mV
			$1.0mA \le I_O \le 40mA$	-	-	75	mV
Input Bias Current	I _{IB}	$T_J = +25^{\circ}C$		-	-	6.5	mA
		T _J = +125°C		-	-	6.0	mA
Input Bias Current Change	ΔI_{IB}	$-20V \ge V_I \ge -30V$ $1.0mA \le I_O \le 40mA$		-	_	1.5	mA
				-	-	0.1	mA
Output Noise Voltage	V _n	$T_A = +25^{\circ}C, \ 10Hz \leq f \leq 100 kHz$		-	90	-	μV
Long–Term Stability	$\Delta V_O / \Delta t$			-	30	-	mV/1.0kHrs
Ripple Rejection	RR	$-18.5V \le V_I \le -28.5V$, f = 120Hz		34	39	-	dB
Input–Output Voltage Differential	V _I /V _O	$I_{O} = 40 \text{mA}, T_{J} = +25^{\circ}\text{C}$		-	1.7	-	V



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