

NTE961 Linear Integrated Circuit Voltage Regulator, Negative, 5V, 1A

Description:

The NTE961 voltage regulator employs current limiting, thermal shutdown, and safe–area compensation which makes it remarkably rugged under most operating conditions. With adequate heat–sinking they can deliver output currents in excess of 1.0 amperes.

Features:

- No External Components Required
- Internal Thermal Overload Protection
- Internal Short–Circuit Current Limiting
- Output Transistor Safe

 —Area Compensation

Absolute Maximum Ratings:

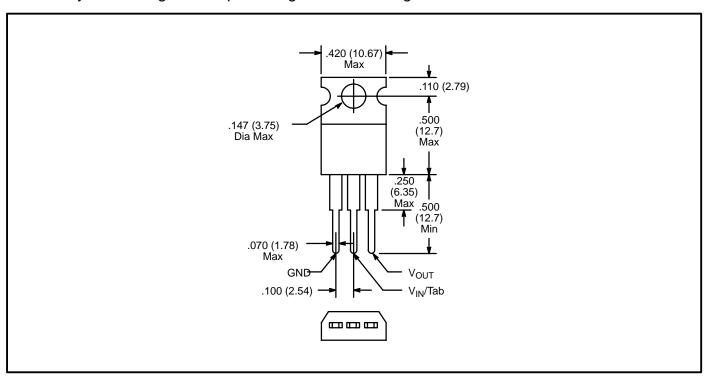
Input Voltage, V _{IN}	į۷
Input-Output Differential	۷ز
Internal Power Dissipation (Note 1), P _D Internally Limite	∍d
Operating Junction Temperature Range, T $_{J}$,C
Storage Temperature Range, T _{stg} 65° to +150°	,C
Lead Temperature (Soldering, 10sec.), T _L +230°	,C

Note 1. For calculations of junction temperature rise due to power dissipation, thermal resistance junction to ambient (Θ_{JA}) is 50°C/W (no heat sink) and 5°C/W (infinite heat sink).

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Output Voltage	Vo	$T_J = +25$ °C,	-4.8	-5.0	-5.2	V
		$5mA \le I_O \le 1A, P \le 15W$	-4.75	_	-5.25	V
			$(-20 \le V_{IN} \le -7)$		V	

Parameter	Symbol	Test Conditions			Тур	Max	Unit
Line Regulation	ΔV_{O}	T _J = +25°C, Note 2		_	8	50	mV
						(–25	≤ V _{IN} s
				_	2	15	mV
			(–12	≤ V _{IN} s	≤ –8)	V	
Load Regulation	ΔV_{O}	$T_J = +25^{\circ}C$	$5\text{mA} \le I_{O} \le 1.5\text{A}$	_	15	100	mV
		Note 2	$250\text{mA} \le I_O \le 750\text{mA}$	_	5	50	mV
Quiescent Current	IQ	$T_J = +25^{\circ}C$		_	1	2	mA
Quiescent Current Change	ΔI_Q	With Line		_	_	0.5	mA
				$(-25 \le V_{1N} \le -7)$		V	
		With Load, $5mA \le I_O \le 1A$			_	0.5	mA
Output Noise Voltage	V _n	$T_A = +25^{\circ}C$,	_	125	_	μV	
Ripple Rejection	pple Rejection f = 120Hz			54	66	_	dB
				$(-18 \le V_{IN} \le -8)$		≤ –8)	V
Dropout Voltage		T _J = +25°C, I _O = 1A		_	1.1	_	V
Peak Output Current	I _{OMAX}	T _J = +25°C		_	2.2	_	А
Average Temperature Coefficient of Output Voltage		$I_{O} = 5\text{mA}, \ 0^{\circ}\text{C} \le T_{J} \le 100^{\circ}\text{C}$		_	0.4	_	mV/°C

Note 2. Regulation is measured at a constant junction temperature by pulse testing with a low duty cycle. Changes in output voltage due to heating effects must be taken into account.



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