

NTE1906 Integrated Circuit Positive 3 Terminal Voltage Regulator, 18V, 100mA

Description:

The NTE1906 is a positive 3–terminal voltage regulator in a TO92 type package suitable for numerous applications requiring up to 100mA. This device features thermal shutdown and current limiting making the NTE1906 remarkably rugged. In most applications, no external components are required.

The NTE1906 is useful for on–card regulation or any other application where a regulated positive voltage at a modest current level is needed. This device offers a substantial advantage over he common resistor/zener diode approach.

Features:

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

Absolute Maximum Ratings:

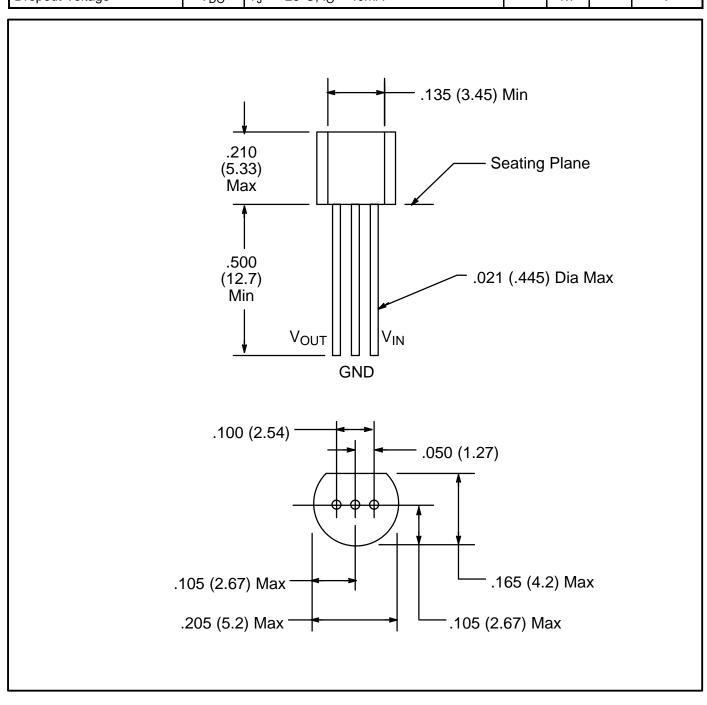
Input Voltage, V _I	35V
Internal Power Dissipation (Note 1), P _D	Internally Limited
Operating Junction Temperature Range, Topr	\dots 0° to +70°C
Maximum Junction Temperature, T _J	+125°C
Storage Junction Temperature Range, T _{stg}	–55° to +150°C
Lead Temperature (During Soldring, 10sec), T _L	+300°C

Note 1. Thermal resistance, junction—to—ambient is 180°C/W when mounted with 0.4" leads on a PC board and 160°C/W when mounted with .250" leads on a PC board.

Electrical Characteristics: $(V_I = 27V, I_O = 40 \text{mA}, C_I = 0.33 \mu\text{F}, C_O = 0.1 \mu\text{F}, 0^\circ < T_J < +125^\circ\text{C} \text{ unless otherwise specified})$

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Output Voltage	Vo	$T_J = +25^{\circ}C$	17.3	18.0	18.7	V
		$20.7V \leq V_I \leq 33V, \ 1\text{mA} \leq I_O \leq 100\text{mA}$	17.1	18.0	18.9	V
Line Regulation	Reg _{line}	$T_J = +25^{\circ}C, 20.7V \le V_I \le 33V$	ı	ı	325	mV

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Load Regulation	Reg _{load}	$T_J = +25^{\circ}C$, $1mA \le I_O \le 100mA$	_	-	170	mV
Quiescent Current	Ι _Β	T _J = +125°C	_	2	6	mA
Quiescent Current Change	Δl_{B}	With line, $21V \le V_I \le 33V$	_	_	1.5	mA
		With load, $1mA \le I_O \le 40mA$	_	_	0.1	mA
Output Noise Voltage	V _n	$T_J = +25$ °C, $f = 10$ Hz to 10 kHz	_	150	_	μV
Long-Term Stability	$\Delta V_O/\Delta t$		_	56	_	mV/1kHrs
Ripple Rejection	RR	$f = 120Hz, 23V \le V_I \le 33V$	33	48	_	dB
Dropout Voltage	V_{DO}	$T_J = +25^{\circ}C, I_O = 40mA$	_	1.7	_	V



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