

NTE1903 Integrated Circuit Negative 3 Terminal Voltage Regulator, –12V, 100mA

Description:

The NTE1903 is a negative 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 NTE1903 remarkably rugged. In most applications, no external components are required for operation.

The NTE1903 is useful for on–card regulation or any other application where a regulated negative voltage at a modest current level is needed. This device offers a substantial advantage over the common resistor/zener diode approach.

Features:

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

Absolute Maximum Ratings:

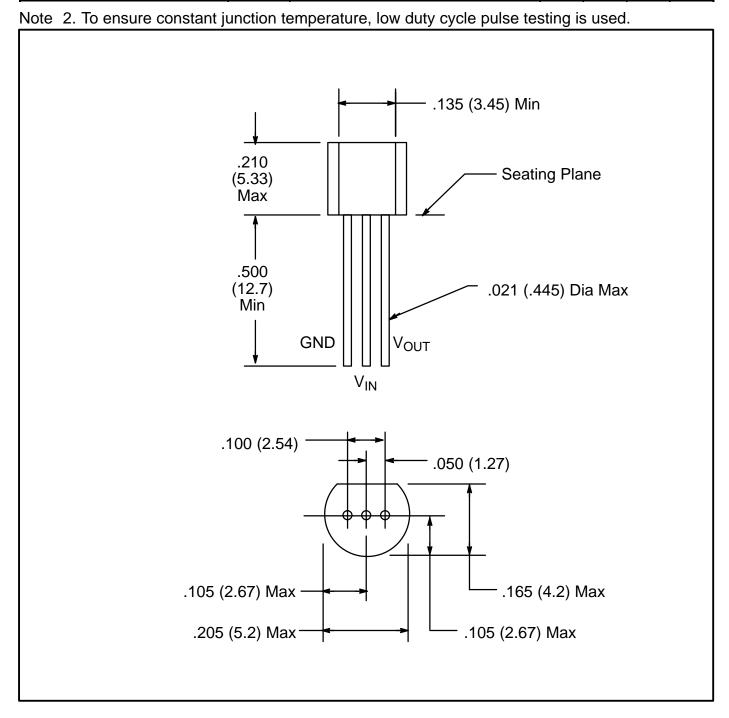
Input Voltage, V _I	–35V
Internal Power Dissipation (Note 1), P _D	. Internally Limited
Operating Junction Temperature Range, Topr	0° to +70°C
Maximum Junction Temperature, T _J	+125°C
Storage Temperature Range, T _{stg}	–55° to +150°C
Lead Temperature (During Soldering, 10sec), T _L	+300°C

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: $(V_I = -19V, I_O = 40mA, C_I = 0.33 \mu F, C_O = 0.1 \mu F, 0^{\circ} \le T_J \le +125^{\circ}C,$ Note 2 unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Output Voltage	Vo	$T_J = +25$ °C	-11.5	-12.0	-12.5	V
		$-27V \le V_I \le -14.8V$, $1mA \le I_O \le 100mA$	-11.4	-12.0	-12.6	V
Line Regulation	Reg _{line}	$T_J = +25^{\circ}C, -27V \le V_I \le -14.6V$	-	_	45	mV

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Load Regulation	Reg _{load}	$T_J = +25^{\circ}C, 1mA \le I_O \le 100mA$	_	_	100	mV
Quiescent Current	Ι _Β	I _O = 100mA	_	2	6	mA
Quiescent Current Change	Δl_{B}	With line, $-27V \le V_1 \le -14.8V$	_	_	0.25	mA
		With load, $1mA \le I_O \le 40mA$	_	_	0.1	mA
Output Noise Voltage	V _n	$T_J = +25^{\circ}C$, f = 10Hz to 10kHz	_	96	_	μV
Ripple Rejection	RR	$-25V \le V_1 \le -15V$, f = 120Hz	52	_	_	dB
Input Voltage Required to Maintain Line Regulation	TCV _O	$T_J = +25$ °C	ı	ı	-14.5	V



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