

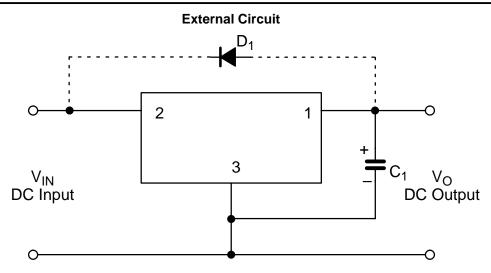
NTE1934 Integrated Circuit Positive Voltage Regulator, 5V, 2A

Features:

- 3 Pin Plastic Package TO3P
- Precise Setting Voltage of ±2%
- Wide Input Voltage Range (~45V)
- Built-in Current Foldback Protection
- Ideal Combination of Passivated Power Transistor and High Reliability Flip-Chip Circuit

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
DC Input Voltage	V _{IN}	I _O = 2A	8	_	30	V
Output Voltage	Vo	$V_{IN} = 10V, I_O = 0.5A$	4.9	5.0	5.1	V
Output Current	I _O		0	_	2	Α
Line Regulation	ΔV_{LINE}	$V_{IN} = 8.5V$ to 11.5V, $I_O = 0.5A$	_	2	10	mV
Load Regulation	ΔV_{LOAD}	$V_{IN} = 10V$, $I_O = 0$ to 2A	_	40	100	mV
Temperature Coefficient	K _t		_	±0.5	_	mV/°C
Ripple Rejection		100 to 120H _Z	_	60	_	dB
Foldback Current	I _{S1}		2.4	_	_	Α
Short–Circuit Current	I _{S2}		-	_	0.6	Α



- Note 1. Output capacitor C_1 (47 to 100 μ f) shall be connected directly to output terminal (Pin1) and GND terminal (PIn3) as shown above.
- Note 2. When wiring between the regulator and the load is long, another capacitor (47 to $100\mu f$) shall be added in parallel with the load.
- Note 3. If there is a possibility of reverse biasing between input and output, a protection diode (D_1) is to be added. The recommended diode for D_1 is NTE116.

