



**ELECTRONICS, INC.**  
44 FARRAND STREET  
BLOOMFIELD, NJ 07003  
(973) 748-5089  
<http://www.nteinc.com>

# **NTE1934X**

## **Integrated Circuit**

### **Positive Voltage Regulator,**

#### **5V, 2A**

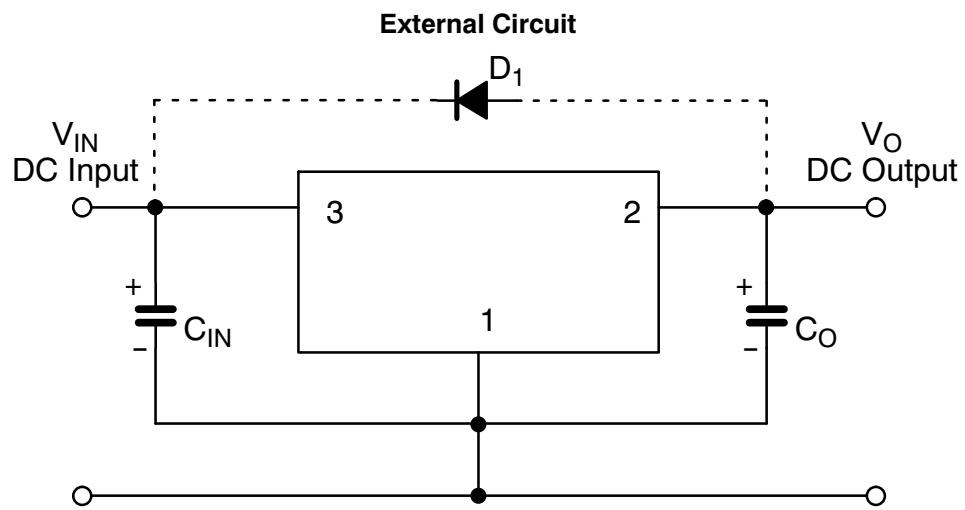
## Features:

- 3 Pin Plastic Package TO3P
  - Only Output Capacitor is Externally Required
  - Precise Setting Voltage of  $\pm 2\%$
  - Wide Input Voltage Range
  - Built-in Current Foldback Protection
  - Ideal Combination of Passivated Power Transistor and High Reliability Flip-Chip Circuit

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

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
DC Input Voltage	$V_{IN}$	$I_O = 2A$	6	-	15	V
Output Voltage	$V_O$	$V_{IN} = 8V, I_O = 1A$	4.9	5.0	5.1	V
Output Current	$I_O$		0	-	2	A
Line Regulation	$\Delta V_{LINE}$	$V_{IN} = 6V \text{ to } 15V, I_O = 1A$	-	10	30	mV
Load Regulation	$\Delta V_{LOAD}$	$V_{IN} = 8V, I_O = 0 \text{ to } 2A$	-	40	100	mV
Temperature Coefficient	$K_t$		-	$\pm 0.5$	-	$mV/^\circ C$
Ripple Rejection	RR	$f = 100Hz \text{ to } 120Hz$	-	54	-	dB
Foldback Current	$I_{S1}$	$V_{IN} = 8V$	2.4	-	-	A



Note 1. C<sub>O</sub>: Output capacitor (47 to 100 $\mu$ F, 50V)

Note 2. C<sub>IN</sub>: Capacitor for oscillation protection (approx. 0.33 $\mu$ F), if needed.

Note 3. Diode for reverse bias protection (NTE552) if needed.

