



**ELECTRONICS, INC.**  
44 FARRAND STREET  
BLOOMFIELD, NJ 07003  
(973) 748-5089

# **NTE1936**

## **Integrated Circuit**

### **Positive Voltage Regulator, 12V, 2A**

## Features:

- 3 Pin Plastic Package TO3P
  - Only Output Capacitor is Externally Required
  - Precise Setting Voltage of  $\pm 2\%$
  - Wide Input Voltage Range (~45V)
  - 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	$V_{IN}$	$I_O = 2A$	15	–	35	V
Output Voltage	$V_O$	$V_{IN} = 19V, I_O = 0.5A$	11.8	12.0	12.2	V
Output Current	$I_O$		0	–	2	A
Line Regulation	$\Delta V_{LINE}$	$V_{IN} = 16V \text{ to } 22V, I_O = 0.5A$	–	10	30	mV
Load Regulation	$\Delta V_{LOAD}$	$V_{IN} = 19V, I_O = 0 \text{ to } 2A$	–	80	200	mV
Temperature Coefficient	$K_t$		–	$\pm 1.5$	–	$mV/^\circ C$
Ripple Rejection		100 to 120Hz	–	60	–	dB
Foldback Current	$I_{S1}$		2.4	–	–	A
Short-Circuit Current	$I_{S2}$		–	–	0.6	A

