



**NTE1938
Integrated Circuit
Positive Voltage Regulator,
15V, 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	18	–	40	V
Output Voltage	V _O	V _{IN} = 23V, I _O = 0.5A	14.8	15.0	15.2	V
Output Current	I _O		0	–	2	A
Line Regulation	ΔV _{LINE}	V _{IN} = 19.5V to 26.5V, I _O = 0.5A	–	10	30	mV
Load Regulation	ΔV _{LOAD}	V _{IN} = 23V, I _O = 0 to 2A	–	80	200	mV
Temperature Coefficient	K _t		–	±0.5	–	mV/°C
Ripple Rejection	RR	f = 100Hz to 120Hz	–	60	–	dB
Foldback Current	I _{S1}		2.4	–	–	A
Short-Circuit Current	I _{S2}		–	–	0.6	A

