



ELECTRONICS, INC.
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 BLOOMFIELD, NJ 07003
 (973) 748-5089

NTE1776 thru NTE1778 Integrated Circuit TV Fixed Voltage Regulator

Features:

- Triple Diffused Darlington Transistor Chips Incorporated
- Compact Plastic Package with Industry Standard Reliability
- Output Voltage is Pre-Fixed – No External Adjustment is Required

Absolute Maximum Ratings:

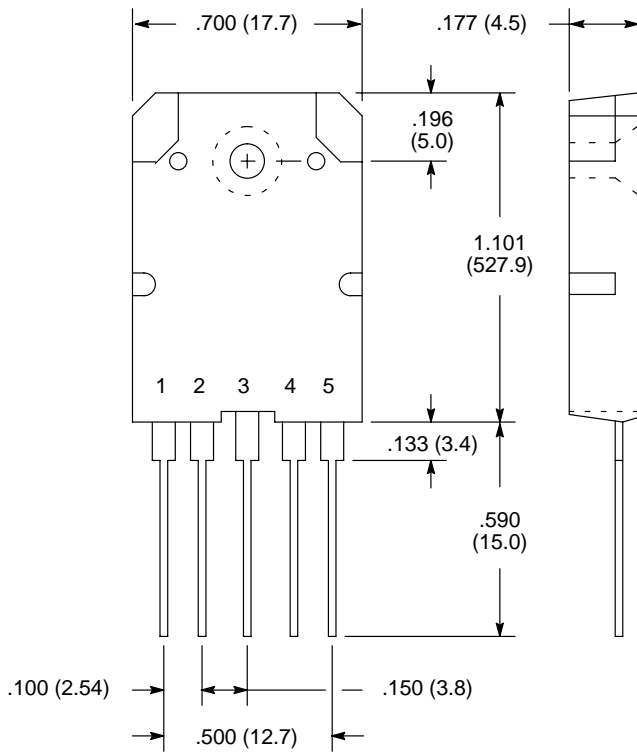
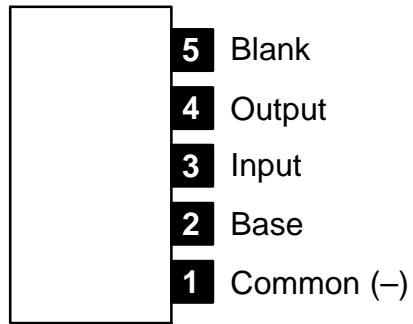
Peak Input Voltage, V_{IN} 200V
 Output Current, I_O 1A
 Power Dissipation ($T_C = +100^\circ\text{C}$), P_D 27W
 Maximum Power Transistor Junction Temperature, T_J $+150^\circ\text{C}$
 Operating Temperature Range (T_C), T_{opr} -20° to $+125^\circ\text{C}$
 Storage Temperature Range, T_{stg} -30° to $+125^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage NTE1776	V_{OUT}	$V_{AC} = 161\text{V}, I_{In} = 7.2\text{mA}$	122.2	123.0	123.8	V
NTE1777			129.2	130.0	130.8	V
NTE1778			134.2	135.0	135.8	V
Load Regulation	ΔV_{LOAD}	$I_O = 250\text{mA to } 500\text{mA}$	–	± 0.8	–	V
Output Voltage Temperature Coefficient		$V_{IN} = V_{AC}, I_O = 500\text{mA}, T_C = -20^\circ \text{ to } +100^\circ\text{C}$	–	± 0	–	mV/ $^\circ\text{C}$
Input–Output Saturation Voltage	$V_{CE(sat)}$	$I_C = 1\text{A}, I_B = 10\text{mA}$	–	–	1.5	V
Input–Output Voltage	V_{CEO}	$I_{CEO} = 10\text{mA}, I_B = 0$	200	–	–	V
DC Current Gain	h_{FE}	$I_C = 1\text{A}, V_{CE} = 4\text{V}$	1500	–	6500	
Power Transistor Thermal Resistance	R_{thJC}	Between Junction and Stem Upper Surface	–	1.8	–	$^\circ\text{C/W}$
Input–Output Cutoff Current	I_{CEO}	$V_{CE} = 200\text{V},$ Pin1, Pin2, and Pin5 Open	–	–	100	μA
Output–Base Reverse Current Capacity	$I_{EB(S/B)}$	$t = 65\text{msec}$ (Between Emitter–Base)		–	300	mA

Note 1. Recommended Case Temperature: $T_{opr} = +100^\circ\text{C}$.

Pin Connection Diagram
(Front View)



OR

