

LM317T

3-Terminal Positive Adjustable Regulators

GENERAL DESCRIPTION

The LM317T are monolithic integrated circuits in TO220 packages.

They are intended for use as positive adjustable voltage regulators, and designed to supply more than 1.5A of load current whit an output voltage adjustable over a 1.2 to 37V range. Compliance to RoHS.

ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings	Value	Unit
V _i -V _o	Input-Output Voltage Differential	40	V
I _o	Output Current	1.5	Α
P _D	Power Dissipation	Internally Limited	W
T _{OP}	Operating Junction Temperature	0° to 125	°C
T _{STG}	Storage Temperature	-65° to 150	°C

THERMAL DATA

Symbol	Ratings	Value	Unit	
R _{thJC}	From Junction to Case Thermal Resistance	1.67	9 0 ///	
R_{thJA}	From Junction to Free-Air Thermal Resistance	62.5	°C/W	

CHARACTERISTICS

 V_i - V_0 = 5 V, I_0 = 500 mA, I_{MAX} = 1.5 A, P_{MAX} = 20 W, unless otherwise specified

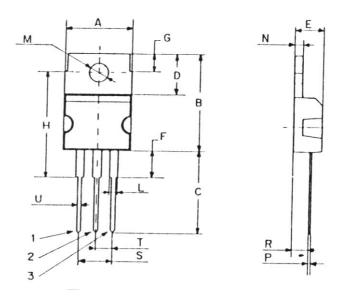
Symbol	Ratings	Test Condition(s)	Min	Тур	Max	Unit
V _{REF}	Reference Voltage	$V_i - V_o = 5 \text{ V}$ $I_o = 40 \text{ to } 500 \text{ mA}$	1.2	1.25	1.3	V
ΔV _o	Line Regulation	$V_i - V_o = 3 \text{ to } 40 \text{ V}$ $I_o = 500 \text{ mA}$	-	-	0.05	%/V
ΔV _o	Load Regulation	$V_i - V_o = 5 \text{ V}$ $I_o = 10 \text{ mA to } 1.5 \text{ A}$	1	-	1	%
I _{ADJ}	Adjustment Pin Current	$V_i - V_o = 5 \text{ V}$ $I_o = 40 \text{ to } 500 \text{ mA}$	ı	ı	100	μΑ
Δ I _{ADJ}	Adjustment Pin Current	$V_i - V_o = 3 \text{ to } 40 \text{ V}$ $I_o = 40 \text{ to } 500 \text{ mA}$	ı	ı	5	μΑ
Δ I _{ADJ}	Adjustment Pin Current	$V_i - V_o = 5 \text{ V}$ $I_o = 10 \text{ mA to } 1.5 \text{ A}$	ı	ı	5	μΑ
S _{VR}	Ripple Rejection	V_{i} - V_{o} = 5 V; I_{O} = 500 m A V_{O} = 10 V; f= 100 Hz C_{ADJ} = 10 μ F	66	-	-	dB



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MECHANICAL DATA CASE TO-220

DIMENSIONS (mm)		
	Min.	Max.
Α	9,90	10,30
В	15,65	15,90
С	13,20	13,40
B C D E F	6,45	6,65
E	4,30	4,50
F	2,70	3,15
G H L	2,60	3,00
Н	15,75	17.15
L	1,15	1,40
М	3,50	3,70
N	-	1,37
Р	0,46	0,55
R	2,50	2,70
S T	4,98	5,08
Т	2.49	2.54
U	0,70	0,90



Pin 1 :	Adjust.
Pin 2 :	Output
Pin 3:	Input

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