

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
l _o	Output Current	1.5	А
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	0000	
R _{thJA}	From Junction to Free-Air Thermal Resistance	62.5	°C/W	

CHARACTERISTICS

 V_i - V_o = 5 V, I_O = 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	$V_i - V_o = 5 V$ $I_o = 40 \text{ to } 500 \text{ mA}$	1.2	1.25	1.3	V
ΔVo	Line Regulation	$V_i - V_o = 3 \text{ to } 40 \text{ V}$ $I_O = 500 \text{ mA}$	-	-	0.05	%/V
ΔV_o	Load Regulation	$V_i - V_o = 5 V$ $I_o = 10 mA$ to 1.5 A	-	-	1	%
I _{ADJ}	Adjustment Pin Current	$V_i - V_o = 5 V$ $I_o = 40 \text{ to } 500 \text{ mA}$	-	-	100	μA
ΔI_{ADJ}	Adjustment Pin Current	$V_i - V_o = 3 \text{ to } 40 \text{ V}$ $I_O = 40 \text{ to } 500 \text{ mA}$	-	-	5	μA
ΔI_{ADJ}	Adjustment Pin Current	$V_i - V_o = 5 V$ $I_o = 10 mA$ to 1.5 A	-	-	5	μA
S _{VR}	Ripple Rejection	$V_i-V_o = 5 V; I_o = 500 m A$ $V_o = 10 V; f = 100 Hz$ $C_{ADJ} = 10 \mu F$	66	-	-	dB

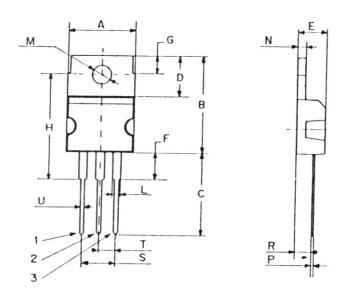


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MECHANICAL DATA CASE TO-220

DIMENSIONS (mm)		
	Min.	Max.
А	9,90	10,30
В	15,65	15,90
С	13,20	13,40
D	6,45	6,65
E	4,30	4,50
F	2,70	3,15
G	2,60	3,00
Н	15,75	17.15
L	1,15	1,40
Μ	3,50	3,70
Ν	-	1,37
Р	0,46	0,55
R	2,50	2,70
S	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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