

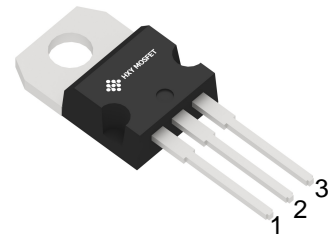


Features

- Output Voltage Range: 1.2V to 37V
- Output Current In Excess of 1.5A
- Epoxy Meets UL 94 V-0 Flammability Rating

Package Marking and Ordering Information

Product ID	Pack	Marking	Units Tube
LM317T	TO-220S	LM317T	50



TO-220S

1. Adj 2. Output 3. Input

Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	V_I	40	V
Output Current	I_o	1.5	A
Power Dissipation	P_D	Internally Limited	W
Operating Junction Temperature $T_{Oj}^* \wedge$	T_{OPR}	0~125	°C
Storage Temperature Range	T_{STG}	-65~125	°C
Operating Junction Temperature Range	T_J	0~125	°C

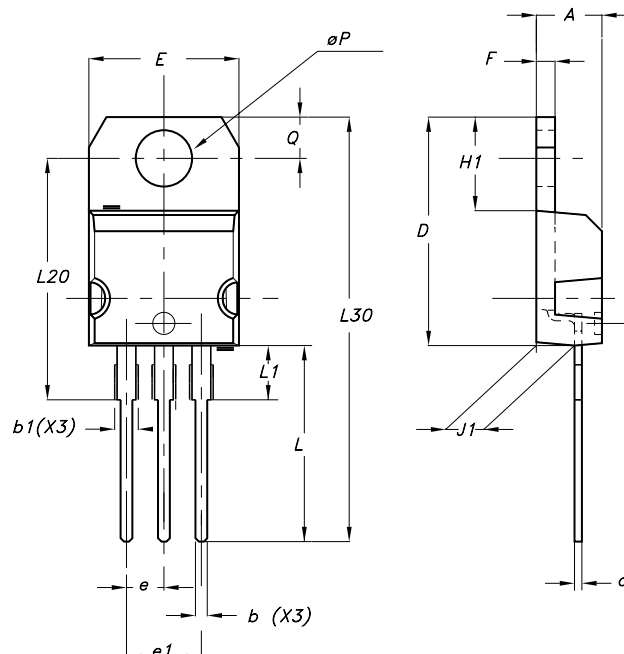
Electrical Characteristics @ 25°C

($V_I-V_o=5V$, $I_o=500mA$, $I_{MAX}=1.5A$, $P_{MAX}=20W$ Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reference Voltage	V_{ref}	$V_I-V_o=5V$, $I_o=40mA$ to 500mA	1.20	1.25	1.30	V
Load Regulation	ΔV_o	$V_I-V_o=5V$, $I_o=5mA$ to 1.5A	-	-	1.0	%
Line Regulation	ΔV_o	$V_I-V_o=3V$ to 40V, $I_o=40mA$ to 500mA	-	-	0.05	%/V
Adjustment Pin Current	I_q	$V_I-V_o=5V$, $I_o=40mA$ to 500mA	-	-	100	μA
Adjustment Pin Current	$I_{q(V)}$	$V_I-V_o=3V$ to 40V, $I_o=40mA$ to 500mA	-	-	5	μA
Adjustment Pin Current	$I_{q(I)}$	$V_I-V_o=5V$, $I_o=5mA$ to 1.5A	-	-	5	μA
Ripple Rejection	Strip	$V_o=10V$ $F=100Hz$, $C_{ADJ}=10\mu F$	66	-	-	dB



Package Information
TO-220S



DIM.	mm.			inch		
	MIN.	TYP	MAX.	MIN.	TYP.	MAX.
A	4.40		4.60	0.173		0.181
b	0.61		0.88	0.024		0.034
b1	1.15		1.70	0.045		0.066
c	0.49		0.70	0.019		0.027
D	15.25		15.75	0.60		0.620
E	10		10.40	0.393		0.409
e	2.40		2.70	0.094		0.106
e1	4.95		5.15	0.194		0.202
F	1.23		1.32	0.048		0.052
H1	6.20		6.60	0.244		0.256
J1	2.40		2.72	0.094		0.107
L	13		14	0.511		0.551
L1	3.50		3.93	0.137		0.154
L20		16.40			0.645	
L30		28.90			1.137	
øP	3.75		3.85	0.147		0.151
Q	2.65		2.95	0.104		0.116



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