

Features

- Output Voltage Range: 1.2V to 37V
- Output Current In Excess of 1.5A
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)



TO-220S

1. Adj 2. Output 3. Input

Package Marking and Ordering Information

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

Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	Vı	40	V
Output Current	I _o	1.5	Α
Power Dissipation	P_{D}	Internally Limited	W
Operating Junction Temperature ÁÜæ) * ^	T _{OPR}	0~125	°C
Storage Temperature Range	T _{STG}	-65~125	°C
Operating Junction Temperature Range	TJ	0~125	°C



Electrical Characteristics

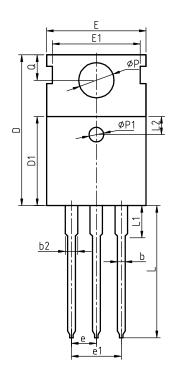
@ 25°C (V_i - V_o =5V, I_o =500mA, I_{MAX} =1.5A, P_{MAX} =20W Unless Otherwise Specified)

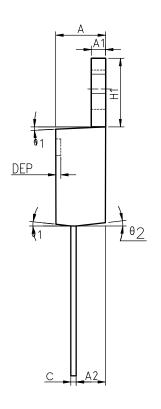
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Reference Voltage	V _{ref}	V _i -V _o =5V, I _o =40mA to 500mA	1.20	1.25	1.30	V
Load Regulation	△Vo	V _I -V _o =5V, I _o =5mA to 1.5A	-	-	1.0	%
Line Regulation	△Vo	V_i - V_o =3V to 40V, I_o =40mA to 500mA	-	-	0.05	%/V
Adjustment Pin Current	Iq	Vi-Vo=5V, I _o =40mA to 500mA	-	-	100	μА
Adjustment Pin Current	I _{q(V)}	V_i - V_o =3V to 40V, I_o =40mA to 500mA	-	-	5	μΑ
Adjustment Pin Current	I _{q(i)}	V_i - V_o =5 V , I_o =5 mA to 1.5 A	-	-	5	μΑ
Ripple Rejection	Strip	V _o =10V F=100Hz, C _{ADJ} =10μF	66	-	-	dB



Package Information

TO-220





COMMON DIMENSIONS



SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX
Α	4.40	4.57	4.70	0.173	0.180	0.185
A1	1. 27	1.30	1.33	0.050	0.051	0.052
A2	2. 35	2.40	2.50	0.093	0.094	0.098
b	0.77	0.80	0.90	0.030	0.031	0.035
b2	1. 17	1. 27	1.36	0.046	0.050	0.054
С	0.48	0.50	0.56	0.019	0.020	0.022
D	15.40	15.60	15.80	0.606	0.614	0.622
D1	9.00	9. 10	9. 20	0.354	0.358	0.362
DEP	0.05	0.10	0.20	0.002	0.004	0.008
E	9.80	10.00	10.20	0. 386	0.394	0.402
E1	-	8.70	-	-	0.343	-
E2	9.80	10.00	10.20	0.386	0.394	0.402
е		2.54	BSC		0.100	BSC
e1		5.08	BSC		0.200	BSC
H1	6.40	6.50	6.60	0. 252	0.256	0.260
L	12.75	13.50	13.65	0.502	0.531	0.537
L1	-	3.10	3.30	-	0.122	0.130
L2		2.50	REF		0.098	REF
Р	3.50	3.60	3.63	0.138	0.142	0.143
P1	3.50	3.60	3.63	0.138	0.142	0.143
Q	2.73	2.80	2.87	0.107	0.110	0.113
θ 1	5°	7°	9°	5°	7°	9°
θ2	1°	3°	5°	1°	3°	5°
θ 3	1°	3°	5°	1°	3°	5°



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