



Micro Commercial Components



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LM317T

Features

- Halogen free available upon request by adding suffix "-HF"
- Output voltage range: 1.2V to 37V
- Output current in excess of 1.5A
- Marking: LM317
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Mounting Torque: 5 in-lbs Maximum

Maximum Ratings @ $T_A=25^\circ\text{C}$, Unless Otherwise Noted

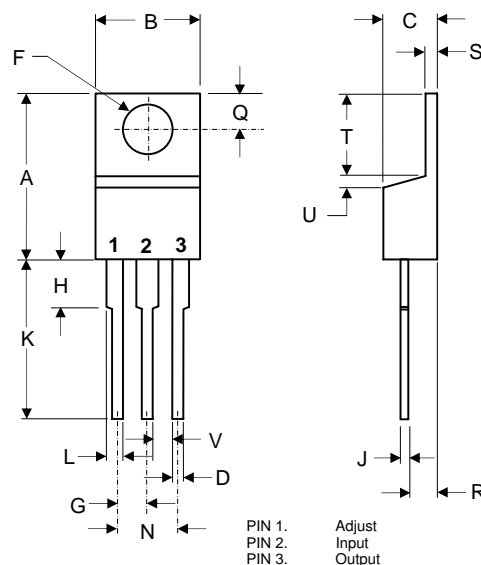
Parameter	Symbol	Value	Unit
Input Voltage	V_I	40	V
Output Current	I_O	1.5	A
Power Dissipation	P_D	Internally Limited	W
Operating Temperature Range	T_{OPR}	0---+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65---+125	$^\circ\text{C}$
Operating Junction Temperature Range	T_J	0---+125	$^\circ\text{C}$

Electrical Characteristics ($V_I-V_O=5\text{V}$, $I_O=500\text{mA}$, $I_{MAX}=1.5\text{A}$, $P_{MAX}=20\text{W}$, unless otherwise specified)

Parameter	Sym	Min	Typ	Max	Test conditions
Reference Voltage	V_{REF}	1.2V	1.25V	1.3V	$V_I-V_O=5\text{V}$, $I_O=40\text{mA}$ to 500mA
Load regulation	ΔV_O	---	---	1.0%	$V_I-V_O=5\text{V}$, $I_O=5\text{mA}$ to 1.5A
Line regulation	ΔV_O	---	---	0.05%/V	$V_I-V_O=3\text{V}$ to 40V, $I_O=40\text{mA}$ to 500mA
Adjustment pin current	I_{q1}	---	---	100 μA	$V_I-V_O=5\text{V}$, $I_O=40\text{mA}$ to 500mA
Adjustment pin current	$I_{q(V)}$	---	---	5 μA	$V_I-V_O=3\text{V}$ to 40V, $I_O=40\text{mA}$ to 500mA
Adjustment pin current	$I_{q(I)}$	---	---	5 μA	$V_I-V_O=5\text{V}$, $I_O=5\text{mA}$ to 1.5A
Ripple rejection	Srip	66dB	---	---	$V_O=10\text{V}$ $F=100\text{Hz}$, $C_{ADJ}=10\mu\text{F}$

Adjustable Voltage Regulators

TO-220



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	Ø
G	.190	.110	2.29	2.79	
H	---	.250	---	6.35	
J	.012	.025	0.30	0.64	
K	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
N	.190	.210	4.83	5.33	
Q	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
T	.230	.270	5.84	6.86	
U	-----	.050	-----	1.27	
V	.045	-----	1.15	-----	

Ordering Information :

Device	Packing
Part Number-BP	Bulk; 1 Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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