Adjustable Voltage Regulators

Features

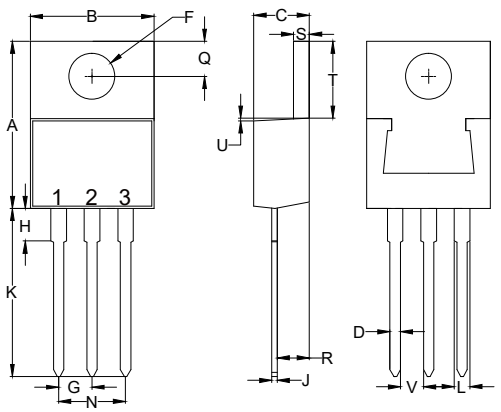
- Output Voltage Range: 1.2V to 37V
- Output Current In Excess of 1.5A
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

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 Range	T_{OPR}	0~125	℃
Storage Temperature Range	T_{STG}	-65~125	℃
Operating Junction Temperature Range	T_J	0~125	℃

Marking Code:LM317

TO-220



PIN 1. Adjust
PIN 2. Output
PIN 3. Input

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.560	0.625	14.22	15.88	
B	0.380	0.420	9.65	10.67	
C	0.140	0.190	3.56	4.82	
D	0.020	0.045	0.51	1.14	
F	0.139	0.161	3.53	4.09	Φ
G	0.090	0.110	2.29	2.79	
H	-----	0.250	-----	6.35	
J	0.012	0.025	0.30	0.64	
K	0.500	0.580	12.70	14.73	
L	0.045	0.060	1.14	1.52	
N	0.190	0.210	4.83	5.33	
Q	0.100	0.135	2.54	3.43	
R	0.080	0.115	2.04	2.92	
S	0.045	0.055	1.14	1.39	
T	0.230	0.270	5.84	6.86	
U	-----	0.050	-----	1.27	
V	0.045	-----	1.15	-----	

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	△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	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}=10μF	66	-	-	dB

Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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