

Features

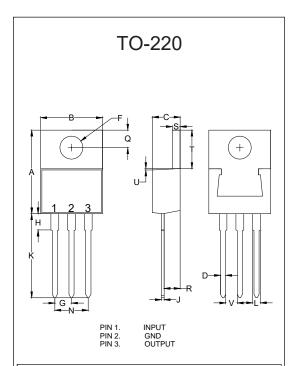
- · Internal Thermal Overload Protection
- · Internal Short Circuit Current Limiting
- No External Components Required
- Output Voltage Offered in 2% Tolerance
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note1) ("P" Suffix Designates RoHS Compliant. See ordering information)

Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	Vı	30	V
Output Current	Io	1.0	Α
Power Dissipation	P _D	15	W
Operating Junction TemperatureÁÜæ)*^	T _{OPR}	-20~75	°C
Storage Temperature Range	T _{STG}	-55~125	°C

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

Three-Terminal Positive Voltage Regulators



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.560	0.625	14.22	15.88	
В	0.380	0.420	9.65	10.67	
С	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	Ф
G	0.090	0.110	2.29	2.79	
Н		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	
Т	0.230	0.270	5.84	6.86	
U		0.050		1.27	
V	0.045		1.15		

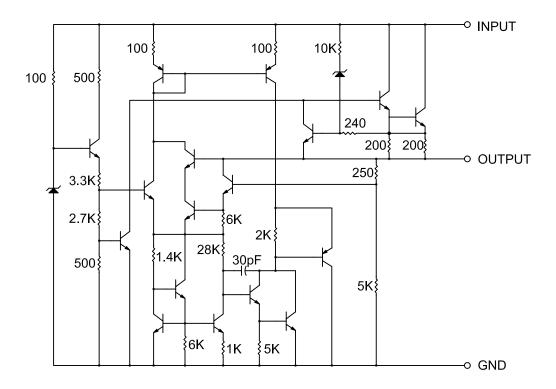


Electrical Characteristics (V_i=14V, I_o=500mA, 0°C < T_j < 125 °C,C_i=0.33uF, C_o=0.1uF,Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Output Voltage		T _j =25°C	7.84	8.0	8.16	V
	Vo	10.5V≤V _i ≤23V,5mA≤I _o ≤1000mA , P _D =15W	7.74	-	8.26	V
Land Damidation	ΔVo	5mA≤I₀≤1500mA,Tj=25°C	-	12.0	160	mV
Load Regulation		250mA≤I₀≤750mA,Tj=25°C	-	4.0	80	mV
Line Regulation	ΔVo	10.5V≤V₁≤25V,Tj=25°C	-	6.0	160	mV
		11V≤V ₁ ≤17V,T _j =25°C	-	2.0	80	mV
Quiescent Current	Iq	T _j =25°C,I _o =0	-	4.3	8.0	mA
Quiescent Current Change	$\triangle I_q$	10.5V≤V _i ≤25V,	-	-	1.0	mA
		5mA≤I _o ≤1000mA	-	-	0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz,,T _j =25°C	-	52	-	μV
Ripple Rejection	RR	f=120Hz	56	72	-	dB
Dropout Voltage	V _d	T _j =25°C,I _o =1.0A	-	2	-	V
Output Short Circuit Current	Ro	f=1.0KHz	-	16	-	mohm
Output Short Circuit Current	I _{os}	T _j =25°C	-	450	-	mA
Peak Output Current	I _{opeak}	T _j =25°C	-	2.2	-	А
Temperature Coefficient of Output Voltage	$\triangle Vo/\triangle T_j$	0°C≤T _j ≤125°C,I _o =5.0mA	-	1.8	-	mV/°C



Representation Schematic Diagram





Ordering Information

Device	Packing
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton

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

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