

Features

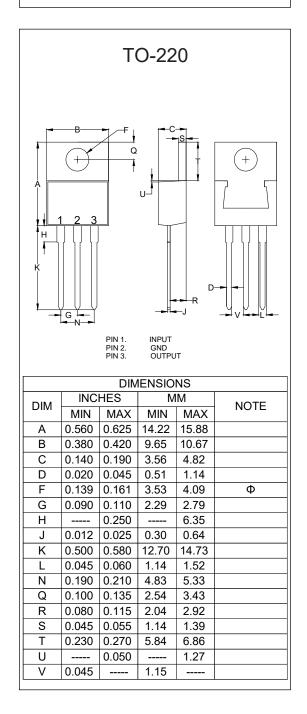
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- No External Components Required
- Output Voltage Offered in 2% Tolerance
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note1)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

Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	VI	30	V
Output Current	l _o	1.0	А
Power Dissipation	P _D	15	W
Operating Junction Temperature Range	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





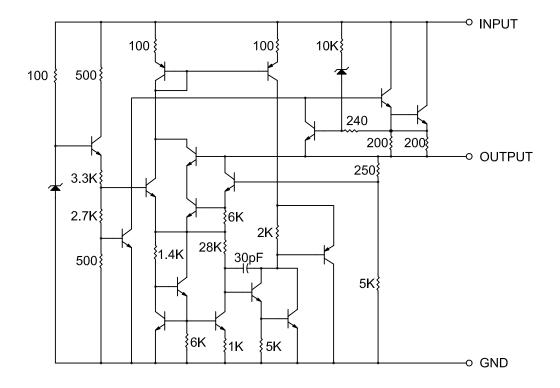
Electrical Characteristics

(V_i=11V, I_o=500mA, $0^{\circ}C < T_j < 125 \ ^{\circ}C, C_i=0.33 uF, C_o=0.1 uF, Unless Otherwise Specified)$

Parameter	Symbol	Test Conditions	Min	Тур	Мах	Unit
Output Voltage	put Voltage Vo	T _j =25°C	5.88	6.0	6.12	V
		8V≤V _i ≤21V,5mA≤I _o ≤1000mA , P _D =15W	5.83	-	6.17	V
Load Regulation	۵Vo	5mA≤I₀≤1500mA,Tj=25°C	-	14.0	120	mV
		250mA≤I₀≤750mA,Tj=25°C	-	4.0	60	mV
Line Regulation	∆Vo	8.0V≤V1≤25V,Tj=25°C	-	5.0	120	mV
		9.0V≤V₁≤13V,Tj=25°C	-	1.5	60	mV
Quiescent Current	lq	T _j =25°C,I _o =0	-	4.3	8.0	mA
Quiescent Current Change	۵Iq	7V≤V _i ≤25V,	-	-	1.3	mA
		5mA≤l₀≤1000mA	-	-	0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz,,Tj=25°C	-	45	-	μV
Ripple Rejection	RR	f=120Hz	59	75	-	dB
Dropout Voltage	V _d	T _j =25°C,l _o =1.0A	-	2	-	V
Output Short Circuit Current	Ro	f=1.0KHz	-	19	-	mohm
Output Short Circuit Current	I _{os}	T _j =25°C	-	550	-	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,I₀=5.0mA	-	0.8	-	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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