

Micro Commercial Components



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- **Features** Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) Output current in excess of 1.0 Ampere
- No external components required
- Internal thermal overload protection
- Internal short-circuit current limiting
- Output voltage offered in 2% tolerance Epoxy meets UL 94 V-0 flammability rating Moisure Sensitivity Level 1

Maximum Ratings @ T_A=25°C. Unless Otherwise Noted

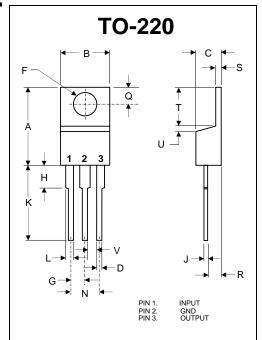
Parameter	Symbol	Value	Unit
Input Voltage	V ₁	30	V
Operating Ambient Temperature	P_D	15	W
Operating Junction Temperature	T _{OPR}	-20+75	°C
Storage Temperature Range	T _{STG}	-55+125	°C

Electrical Characteristics (Vi=11V, Io=500mA, 0°C<Tj<125°C, Ci=0.33uF, Co=0.1uF, Unless Otherwise Specified)

Parameter	Sym	Min	Тур	Max	Test conditions
		5.88V	6.0V	6.12V	T _j =25°C
Output Voltage	V_0	5.83V		6.17V	$8V \le V_1 \le 21V$, $5mA \le I_0 \le 1.0A$, $P_D=15W$
Load Regulation	△V₀		14mV	120mV	$5mA \le I_0 \le 1.5A,$ $T_j = 25^{\circ}C,$
			4.0mV	60mV	250mA≦I _o ≦750mA, T _i =25°C
Line regulation	△V₀		5.0mV 1.5mV	120mV 60mV	$8V \le V_1 \le 25V, T_j=25^{\circ}C$ $9V \le V_1 \le 13V, T_j=25^{\circ}C$
Quiescent Current	Iq		4.3mA	8.0mA	T _j =25°C, I _O =0
Quiescent Current Change	$\triangle I_q$			1.3mA 0.5mA	$7V \leq V_1 \leq 25V$ $5mA \leq I_0 \leq 1.0A$
Output Noise Voltage	V _N		45µV		10Hz≦f≦100KHz T _j =25°C
Ripple Rejection	RR	59dB	75dB		f=120Hz
Dropout Voltage	V_{d}		2.0V		I _O =1.0A, T _j =25°C
Output Short Circuit Current	Ro		19mohm		f=1.0KHz
Output Short Circuit Current	I _{os}		550mA		T _j =25°C
Peak Output Current	I _{opeak}		2.2A		T _j =25°C
Temperature Coefficient of Output voltage	△V₀/ △Tj		0.8mV/°C		0 °C \leq Tj \leq 125 °C, I_0 =5mA

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

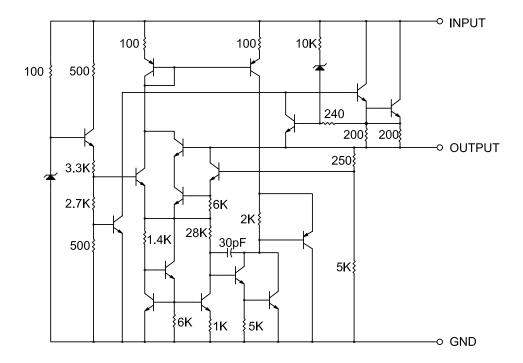
Three-Terminal Positive Voltage Regulators



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.560	.625	14.22	15.88	
В	.380	.420	9.65	10.67	
С	.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	
Н		.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	
Т	.230	.270	5.84	6.86	
U		.050		1.27	
V	.045		1.15		



Representation Schematic Diagram





Ordering Information:

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

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