imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

Features

- Halogen free available upon request by adding suffix "-HF" 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 Mounting Torgue: 5 in-lbs Maximum Maximum Ratings @ T₄=25°C, Unless Otherwise Noted

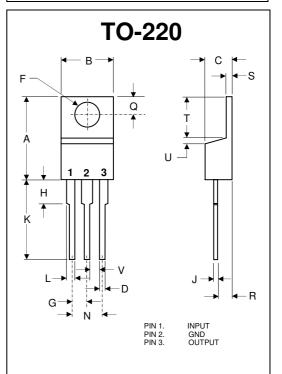
Parameter	Symbol	Value	Unit
Input Voltage	V ₁	30	V
Operating Ambient Temperature	PD	15	W
Operating Junction Temperature	T _{OPR}	-20+75	°C
Storage Temperature Range	T _{STG}	-55+125	°C

Electrical Characteristics (Vi=11V. lo=500mA. 0°C<Ti<125°C. Ci=0.33uF. Co=0.1uF. Unless Otherwise Snecified)

<u>-0.0001,00</u>			1	-	
Parameter	Sym	Min	Тур	Max	Test conditions
		5.88V	6.0V	6.12V	T _j =25°C
Output Voltage	Vo	5.83V		6.17V	$\begin{array}{l} 8V{\leq}V_{1}{\leq}21V,\\ 5mA{\leq}I_{0}{\leq}1.0A,\\ P_{\text{D}}{=}15W \end{array}$
Load Regulation	∆V₀		14mV	120mV	$5mA \leq I_O \leq 1.5A$, $T_j=25^{\circ}C$,
			4.0mV	60mV	250mA≦I ₀ ≦750mA, T _j =25°C
Line regulation	∆V₀		5.0mV 1.5mV	120mV 60mV	$\begin{array}{c} 8V \! \leq \! V_1 \! \leq \! 25V, T_j \! = \! 25^{\circ}\! C \\ 9V \! \leq \! V_1 \! \leq \! 13V, T_j \! = \! 25^{\circ}\! C \end{array}$
Quiescent Current	Ι _q		4.3mA	8.0mA	T _j =25°C, I _O =0
Quiescent Current Change	$ riangle \mathbf{I}_{q}$			1.3mA 0.5mA	$\begin{array}{l} 7V {\leq} V_1 {\leq} 25V \\ 5mA {\leq} I_o {\leq} 1.0A \end{array}$
Output Noise Voltage	V _N		45µV		10Hz≦f≦100KHz T _i =25°C
Ripple Rejection	RR	59dB	75dB		f=120Hz
Dropout Voltage	V _d		2.0V		I ₀ =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≦Tj≦125 °C, I _o =5mA

MC7806CT

Three-Terminal Positive Voltage Regulators



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.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	
К	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
Ν	.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		

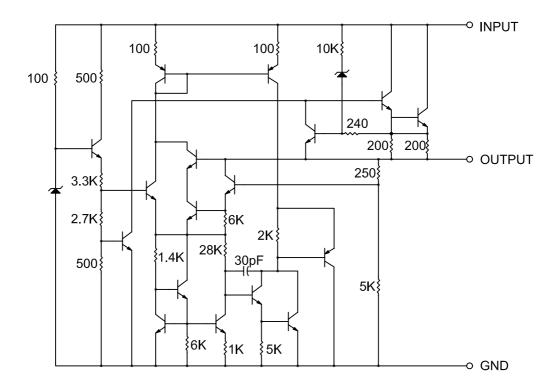
Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

www.mccsemi.com

MC7806CT



Representation Schematic Diagram



www.mccsemi.com



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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