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 Fax: (818) 701-4939

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

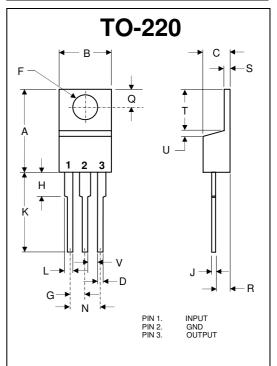
Electrical Characteristics (Vi=14V, Io=500mA, 0°C<Tj<125°C, Ci=0 33uF Co=0 1uF Unless Otherwise Specified)

61–0.JJUF, 60	–v. Iur, 1	0111099 U	i nici miĝo ĝ	pheriller	1)
Parameter	Sym	Min	Тур	Max	Test conditions
		7.84V	8.0V	8.16V	T _j =25°C
Output Voltage	V ₀	7.74V		8.26V	$\begin{array}{l} 10.5V{\leq}V_{1}{\leq}23V,\\ 5mA{\leq}I_{O}{\leq}1.0A,\\ P_{D}{=}15W \end{array}$
Load	∆V₀		12mV	160mV	$5mA \leq I_0 \leq 1.5A$, $T_i=25^{\circ}C$,
Regulation	∠v₀		4.0mV	80mV	250mA \le I _O \le 750mA, T _i =25°C
Line	$ riangle V_o$		6.0mV	160mV	$10.5V \le V_1 \le 25V,$
regulation			2.0mV	80mV	$T_j=25^{\circ}C$ 11V \leq V ₁ \leq 17V, $T_j=25^{\circ}C$
Quiescent Current	lq		4.3mA	8.0mA	$T_j=25^{\circ}C, I_O=0$
Quiescent Current Change	$ riangle \mathbf{I}_{q}$			1.0mA 0.5mA	$\begin{array}{c} 10.5V \! \leq \! V_1 \! \leq \! 25V \\ 5mA \! \leq \! I_o \! \leq \! 1.0A \end{array}$
Output Noise Voltage	V _N		52µV		10Hz≦f≦100KHz T _i =25°C
Ripple Rejection	RR	56dB	72dB		f=120Hz
Dropout Voltage	V_{d}		2.0V		$I_0=1.0A, T_j=25^{\circ}C$
Output Short Circuit Current	Ro		16mohm		f=1.0KHz
Output Short Circuit Current	I _{OS}		450mA		T _j =25°C
Peak Output Current	I _{opeak}		2.2A		T _j =25°C
Temperature Coefficient of Output voltage	∆V₀⁄ ∆Tj		1.8mV/°C		0 °C≦Tj≦125 °C, I _o =5mA

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

MC7808CT

Three-Terminal Positive Voltage Regulators



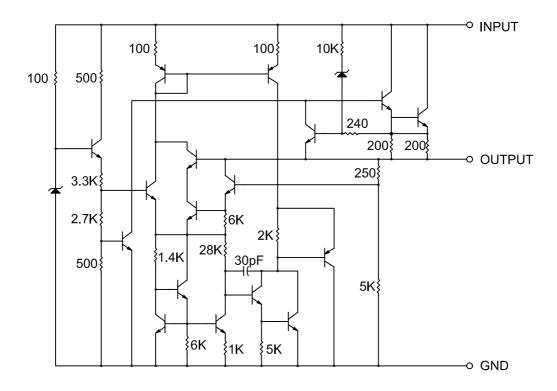
	INCHES		N	MM	
DIM	MIN	MAX	MIN	MAX	NOTE
А	.560	.625	14.22	15.88	
В	.380	.420	9.65	10.67	
С	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	Ø
G	.190	.110	2.29	2.79	
Н		.250		6.35	
J	.012	.025	0.30	0.64	
К	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
Ν	.190	.210	4.83	5.33	
Ø	.100	.135	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		

www.mccsemi.com

MC7808CT



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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