

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!



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Micro Commercial Components

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MC7809CT

Features

- 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
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

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

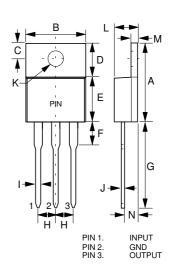
Parameter	Symbol	Value	Unit
Input Voltage	V ₁	30	V
Operating Ambient Temperature	P _D	15	W
Operating Junction Temperature	T _{OPR}	-20+75	°C
Storage Temperature Range	T _{STG}	-55+125	°C

Electrical Characteristics (Vi=15V, Io=500mA, 0°C<Tj<125°C, Ci=0.33uF, Co=0.1uF, Unless Otherwise Specified)

Parameter	Sym	Min	Тур	Max	Test conditions
Output Voltage		8.82V	9.0V	9.18V	T _j =25°C
	V ₀	8.77V		9.23V	$ \begin{array}{l} 10.5V \! \leq \! V_1 \! \leq \! 27V, \\ 5mA \! \leq \! I_0 \! \leq \! 1.0A, \\ P_D \! = \! 15W \end{array} $
Load Regulation	△V₀		12mV	160mV	$5mA \le I_0 \le 1.5A$, $T_j=25^{\circ}C$,
			4.0mV	80mV	$250mA \le I_0 \le 750mA$, $T_i=25$ °C
Line	$\triangle V_o$		6.0mV	160mV	$11.5V \le V_1 \le 30V$,
regulation			2.0mV	80mV	$ \begin{array}{l} T_{j} \!\!\!=\!\! 25^{\circ} C \\ 12 V \!\!\!\! \leq \!\!\! V_{1} \!\!\! \leq \!\!\! 18 V, \\ T_{j} \!\!\!\! = \!\!\! 25^{\circ} C \end{array} $
Quiescent Current	Iq		4.3mA	8.0mA	T _j =25°C, I _O =0
Quiescent Current Change	$\triangle I_q$			1.0mA 0.5mA	$ \begin{array}{c} 14.5V \! \leq \! V_1 \! \leq \! 30V \\ 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	55dB	72dB		f=120Hz
Dropout Voltage	V _d		2.0V		I _O =1.0A, T _j =25°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	△V _o / △Tj		1.8mV/°C		$0^{\circ}\text{C} \leq \text{Tj} \leq 125^{\circ}\text{C},$ $I_{\text{O}} = 5\text{mA}$

Three-Terminal Positive Voltage Regulators

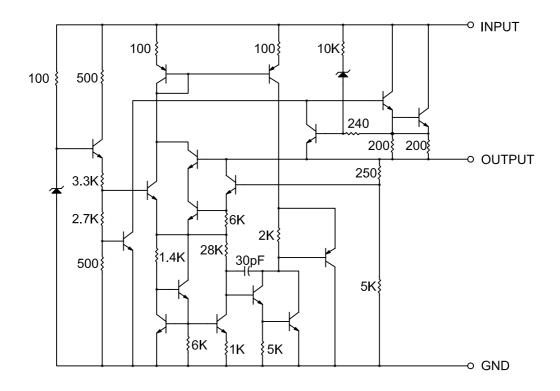
TO-220



DIMENSIONS								
	INCHES		ММ					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	.560	.625	14.22	15.88				
В	.380	.420	9.65	10.67				
С	.100	.135	2.54	3.43				
D	.230	.270	5.84	6.86				
Е	.380	.420	9.65	10.67				
F		.250		6.35				
G	.500	.580	12.70	14.73				
Н	.090	.110	2.29	2.79				
- 1	.020	.045	0.51	1.14				
J	.012	.025	0.30	0.64				
K	.139	.161	3.53	4.09	Ø			
L	.140	.190	3.56	4.83				
M	.045	.055	1.14	1.40				
N	.080	.115	2.03	2.92				



Representation Schematic Diagram





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