

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MC78L08BP

Features

- Halogen free available upon request by adding suffix "-HF"
- Max. Output Current: 100mA
- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

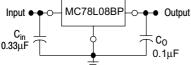
Parameter	Symbol	Value	Unit
Input Voltage	V ₁	30	V
Operating Junction Temperature	T _{OPR}	-20+120	$^{\circ}\mathbb{C}$
Storage Temperature Range	T _{STG}	-55+150	$^{\circ}\!\mathbb{C}$

Electrical Characteristics(V_i =14V, I_0 =40mA, 0 °C <Tj<125 °C, C1=0.33uF. C_0 =0.1uF. unless otherwise specified)

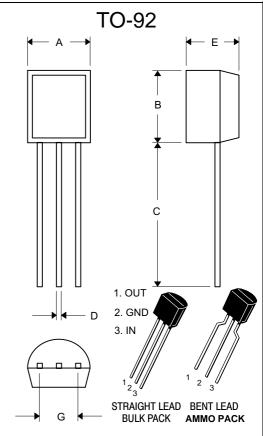
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Parameter	Sym	Min	Тур	Max	Test conditions
Output Voltage	V ₀	7.7V	8.0V	8.3V	T _j =25°C
		7.6V		8.4V	$10.5V \le V_1 \le 23V$, $I_0=1mA-40mA$
		7.6V		8.4V	$10.5V \le V_1 \le V_{MAX}$, $I_0=1mA-70mA$ (Note)
Load Regulation	△V₀		15mV	80mV	I _o =1mA-100mA, T _j =25°C,
			8.0mV	40mV	l₀=1mA-70mA, Tj=25°C,
Line regulation	△V₀		10mV 8.0mV	175mV 125mV	$\begin{array}{l} 10.5V\!\leq\!V_1\!\leq\!23V,T_j\!\!=\!\!25^{o}C\\ 11V\!\leq\!V_1\!\leq\!23V,T_j\!\!=\!\!25^{o}C \end{array}$
Quiescent Current	l _q △l _q		2.0mA	5.5mA 1.5mA	11V≦V₁≦23V
Quiescent Current Change	$\triangle I_q$			0.1mA	1mA≦I₀≦40mA
Output Noise Voltage	V _N		49uV		10Hz≦f≦100KHz
Ripple Rejection	RR	39dB	70dB		11V≦V₁≦23V f=120Hz, T _j =25°C
Dropout Voltage	V_d		1.7V		T _j =25°C

^{*}Note: Bypass Capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators

Typical Application:



Three-Terminal Low Current Positive Voltage Regulator



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
С	.500		12.70		
D	.016	.020	0.41	0.63	
Е	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.



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Ordering Information:

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note: Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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