

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA91311

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Features

- Halogen free available upon request by adding suffix "-HF" 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	$^{\circ}\!\mathbb{C}$

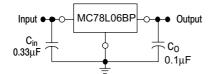
Electrical Characteristics(V_i=12V_i l₀=40mA_i 0 °C <Ti<125 °C_i

C1=0.33uf. Co=0.1uf. unless otherwise specified)

Parameter	Sym	Min	Тур	Max	Test conditions
Output Voltage	V ₀	5.75V	6.0V	6.25V	T _j =25°C
		5.7V		6.3V	$8.5V \le V_1 \le 20V$, $I_0=1mA-40mA$
		5.7V		6.3V	$8.5V \le V_1 \le V_{MAX}$, $I_0=1mA-70mA$ (Note)
Load Regulation	△V₀		12.8mV	80mV	I _o =1mA-100mA, T _j =25°C,
			5.8mV	40mV	I₀=1mA-70mA, Tj=25°C,
Line regulation	$\triangle V_o$		64mV 54mV	175mV 125mV	$ \begin{array}{l} 8.5V \! \leq \! V_1 \! \leq \! 20V, T_j \! = \! 25^{\circ}C \\ 9V \! \leq \! V_1 \! \leq \! 20V, T_j \! = \! 25^{\circ}C \end{array} $
Quiescent Current	l _q △l _q		3.9mA	6.0mA 1.5mA	9V≦V ₁ ≦20V
Quiescent Current Change	$\triangle I_q$			0.1mA	1mA≦I₀≤40mA
Output Noise Voltage	V_N		49uV		10Hz≦f≦100KHz
Ripple Rejection	RR	41dB	46dB		8V≦V₁≦20V f=120Hz, T _j =25°C
Dropout Voltage	V_{d}		1.7V		T _j =25°C

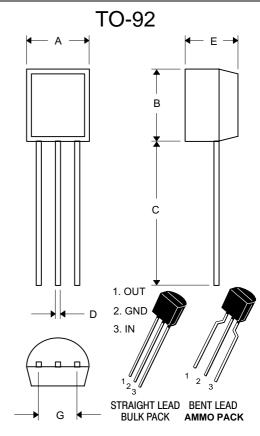
*Note: Bypass Capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators

Typical Application:



MC78L06BP

Three-Terminal Low Current Positive Voltage Regulator



DIMENSIONS					
	INCHES		MM		
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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