

Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

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MC78L12BP

Features

- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

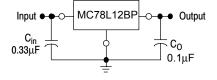
Parameter	Symbol	Value	Unit
Input Voltage	V ₁	35	V
Operating Junction Temperature	T _{OPR}	-20+120	$^{\circ}\mathbb{C}$
Storage Temperature Range	T _{STG}	-55+150	$^{\circ}\!\mathbb{C}$

Electrical Characteristics(V = 19V, I = 500mA, 0 °C < Tj < 125 °C,

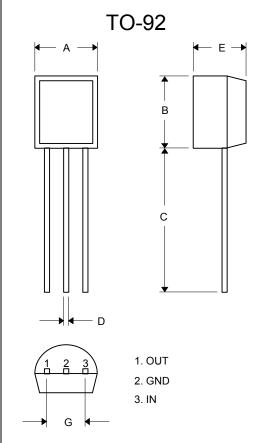
C1=0 33uF C₀=0 1uF unless otherwise specified)

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Parameter	Sym	Min	Тур	Max	Test conditions			
Output Voltage	V ₀	11.5V	12V	12.5V	T _j =25°C			
		11.4V		12.6V	$14.5V \le V_1 \le 27V$, $I_0=1mA-40mA$			
		11.4V		12.6V	$ \begin{array}{l} 14.5V \! \leq \! V_1 \! \leq \! V_{MAX}, \\ I_0 \! = \! 1mA \! - \! 70mA \text{ (Note)} \end{array} $			
Load Regulation	$\triangle V_o$		25mV	150mV	I _o =1mA-100mA, Τ _j =25°C,			
			12mV	75mV	I _o =1mA-40mA, T _j =25°C,			
Line regulation	△V₀		25mV 20mV	300mV 250mV	$ \begin{array}{l} 14.5V \! \leq \! V_1 \! \leq \! 27V, T_j \! = \! 25^{\circ}C \\ 16V \! \leq \! V_1 \! \leq \! 27V, T_j \! = \! 25^{\circ}C \end{array} $			
Quiescent Current	l _q △l _q		2.0mA	6.0mA 1.5mA	16V≦V₁≦27V			
Quiescent Current Change	$\triangle I_{q}$			0.1mA	1mA≦I₀≤40mA			
Output Noise Voltage	V _N		80uV		10Hz≦f≦100KHz			
Ripple Rejection	RR		37dB	65dB	15V≦V₁≦25V f=120Hz, Tj=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



BUATHOLOUG							
DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.175	.185	4.45	4.70			
В	.175	.185	4.46	4.70			
С	.500		12.7	-			
D	.016	.020	0.41	0.63			
E	.135	.145	3.43	3.68			
G	.095	.105	2.42	2.67			
G	.095	.105	2.42	2.07			



Micro Commercial Components

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