



Micro Commercial Components

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Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

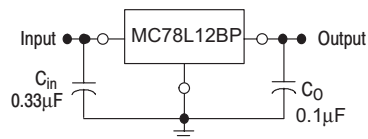
Parameter	Symbol	Value	Unit
Input Voltage	V ₁	35	V
Operating Junction Temperature	T _{OPR}	-20---+120	°C
Storage Temperature Range	T _{STG}	-55---+150	°C

Electrical Characteristics (V_i=19V, I_o=500mA, 0°C <T_j<125°C, C₁=0.33uF, C_o=0.1uF, unless otherwise specified)

Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	V _o	11.5V	12V	12.5V	T _j =25°C
		11.4V		12.6V	14.5V ≤ V ₁ ≤ 27V, I _o =1mA-40mA
		11.4V		12.6V	14.5V ≤ V ₁ ≤ V _{MAX} , I _o =1mA-70mA (Note)
Load Regulation	ΔV _o		25mV	150mV	I _o =1mA-100mA, T _j =25°C,
			12mV	75mV	I _o =1mA-40mA, T _j =25°C,
Line regulation	ΔV _o		25mV 20mV	300mV 250mV	14.5V ≤ V ₁ ≤ 27V, T _j =25°C 16V ≤ V ₁ ≤ 27V, T _j =25°C
Quiescent Current	I _q ΔI _q		2.0mA	6.0mA	16V ≤ V ₁ ≤ 27V
				1.5mA	
Quiescent Current Change	ΔI _q			0.1mA	1mA ≤ I _o ≤ 40mA
Output Noise Voltage	V _N		80uV		10Hz ≤ f ≤ 100KHz
Ripple Rejection	RR		37dB	65dB	15V ≤ V ₁ ≤ 25V 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

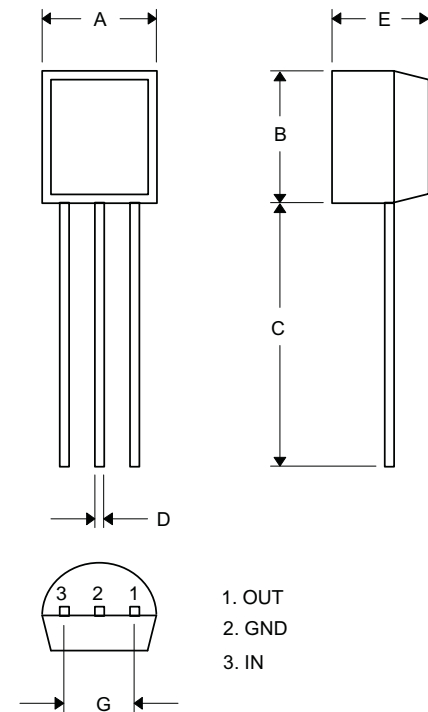
Typical Application:



MC78L12BP

Three-Terminal Low Current Positive Voltage Regulator

TO-92



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.175	.185	4.45	4.70	
B	.175	.185	4.46	4.70	
C	.500	---	12.7	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	



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Ordering Information

Device	Packing
(Part Number)-AP	Ammo Packing;2Kpcs/AmmoBox
(Part Number)-BP	Bulk;1Kpcs/Bag

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