



Micro Commercial Components

Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311

Phone: (818) 701-4933

Fax: (818) 701-4939

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

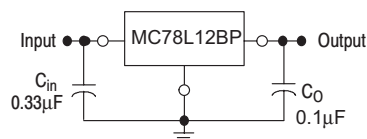
Parameter	Symbol	Value	Unit
Input Voltage	V_1	35	V
Operating Junction Temperature	T_{OPR}	-20---+120	°C
Storage Temperature Range	T_{STG}	-55---+150	°C

Electrical Characteristics ($V_1=19V$, $I_o=500mA$, $0^\circ C < T_J < 125^\circ C$, $C_1=0.33\mu F$, $C_o=0.1\mu F$, unless otherwise specified)

Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	V_o	11.5V	12V	12.5V	$T_J=25^\circ C$
		11.4V		12.6V	$14.5V \leq V_1 \leq 27V$, $I_o=1mA-40mA$
		11.4V		12.6V	$14.5V \leq V_1 \leq V_{MAX}$, $I_o=1mA-70mA$ (Note)
Load Regulation	ΔV_o		25mV	150mV	$I_o=1mA-100mA$, $T_J=25^\circ C$,
			12mV	75mV	$I_o=1mA-40mA$, $T_J=25^\circ C$,
Line regulation	ΔV_o		25mV 20mV	300mV 250mV	$14.5V \leq V_1 \leq 27V$, $T_J=25^\circ C$ $16V \leq V_1 \leq 27V$, $T_J=25^\circ C$
Quiescent Current	I_q ΔI_q		2.0mA	6.0mA 1.5mA	$16V \leq V_1 \leq 27V$
Quiescent Current Change	ΔI_q			0.1mA	$1mA \leq I_o \leq 40mA$
Output Noise Voltage	V_N		80uV		$10Hz \leq f \leq 100KHz$
Ripple Rejection	RR		37dB	65dB	$15V \leq V_1 \leq 25V$ $f=120Hz$, $T_J=25^\circ C$
Dropout Voltage	V_d		1.7V		$T_J=25^\circ C$

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

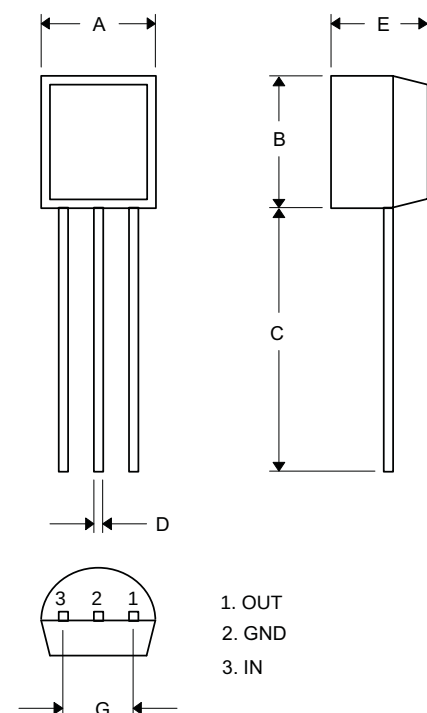
Typical Application:



MC78L12BP

Three-Terminal Low Current Positive Voltage Regulator

TO-92



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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	

Ordering Information

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes .
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp.* and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.