



MC79L08BP

Three-Terminal Low Current Negative Voltage Regulator

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
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Absolute Maximum Ratings

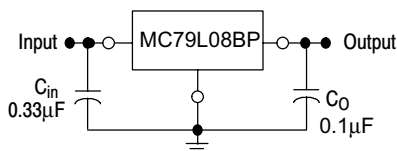
Parameter	Symbol	Value	Unit
Input Voltage	V_1	30	V
Operating Junction Temperature	T_{OPR}	-30---+75	°C
Storage Temperature Range	T_{STG}	-40---+125	°C

Electrical Characteristics($V_i=14V$, $I_o=40mA$, $0^\circ C < T_j < 125^\circ C$, $C_1=0.33\mu F$, $C_o=0.1\mu F$, unless otherwise specified)

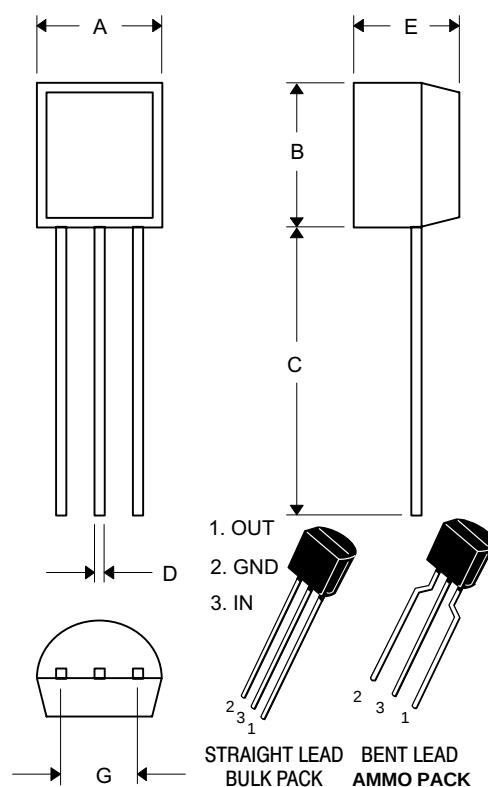
Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	V_o	7.68V	8.0V	8.32V	$V_i=14V$, $I_o=40mA$
Load Regulation	$V_o - I_o$		10mV	80mV	$I_o=1mA-100mA$, $V_i=14V$
Line regulation	$V_o - V_i$		24mV	175mV	$10.5V \leq V_i \leq 23V$, $I_o=40mA$
Quiescent Current	I_q		3.5mA	6.0mA	$V_i=14V$, $I_o=40mA$
Output Noise Voltage	V_N		190μV		$10Hz \leq f \leq 100KHz$, $V_i=14V$, $I_o=40mA$
Ripple Rejection	RR	39dB	68dB		$11V \leq V_i \leq 21V$, $I_o=40mA$, $f=120Hz$, $T_j=25^\circ C$, $e_{IN}=1V_{P-P}$

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

Typical Application:



TO-92



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

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

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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