



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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

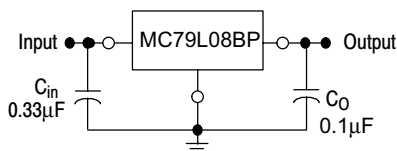
| Parameter                      | Symbol    | Value      | Unit |
|--------------------------------|-----------|------------|------|
| Input Voltage                  | $V_1$     | 30         | V    |
| Operating Junction Temperature | $T_{OPR}$ | -30---+75  | °C   |
| Storage Temperature Range     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

1. OUT  
 2. GND  
 3. IN

STRAIGHT LEAD BULK PACK      BENT LEAD AMMO PACK

| 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.



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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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