



Micro Commercial Components

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## MC79L08BP

### Features

- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required

### Absolute Maximum Ratings

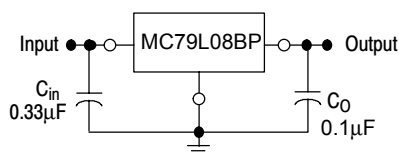
| Parameter                      | Symbol    | Value      | Unit |
|--------------------------------|-----------|------------|------|
| Input Voltage                  | $V_1$     | 30         | V    |
| Operating Junction Temperature | $T_{OPR}$ | -30---+75  | °C   |
| Storage Temperature Range      | $T_{STG}$ | -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  | $I_o=1mA-100mA$ ,<br>$V_i=14V$                                                               |
| Line regulation      | $V_o - V_i$ |       | 24mV        | 175mV | $10.5V \leq V_i \leq 23V$ ,<br>$I_o=40mA$                                                    |
| Quiescent Current    | $I_q$       |       | 3.5mA       | 6.0mA | $V_i=14V$ , $I_o=40mA$                                                                       |
| Output Noise Voltage | $V_N$       |       | 190 $\mu$ V |       | $10Hz \leq f \leq 100KHz$<br>$V_i=14V$ , $I_o=40mA$                                          |
| Ripple Rejection     | RR          | 39dB  | 68dB        |       | $11V \leq V_i \leq 21V$ ,<br>$I_o=40mA$<br>$f=120Hz$ , $T_j=25^\circ C$<br>$e_{IN}=1V_{P-P}$ |

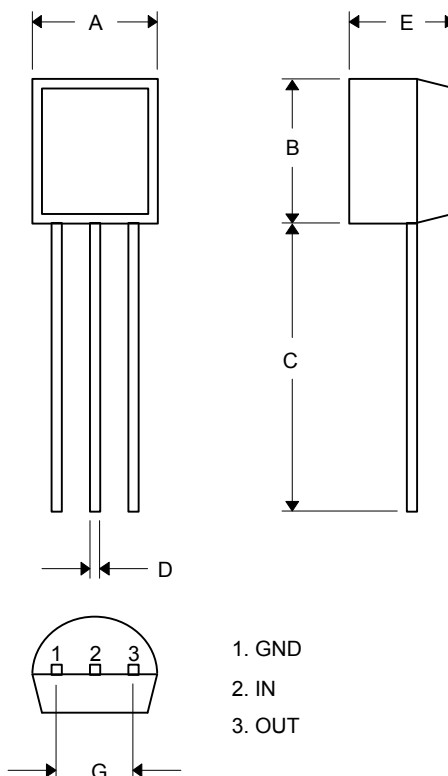
\*Note: Bypass Capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators

Typical Application:



### Three-Terminal Low Current Negative Voltage Regulator

TO-92



| DIMENSIONS |        |      |      |      |      |
|------------|--------|------|------|------|------|
| 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 |      |