



Micro Commercial Components

Micro Commercial Components  
20736 Marilla Street Chatsworth  
CA 91311

Phone: (818) 701-4933

Fax: (818) 701-4939

## MC79L08F

### Features

- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking : Type number

### Absolute Maximum Ratings

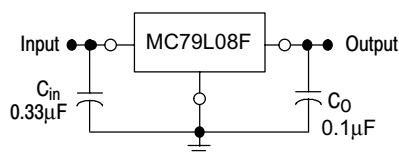
| Parameter                      | Symbol    | Value      | Unit |
|--------------------------------|-----------|------------|------|
| Input Voltage                  | $V_1$     | 30         | V    |
| Operating Junction Temperature | $T_{OPR}$ | -30---+75  | °C   |
| Storage Temperature Range      | $T_{STG}$ | -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 | $V_N$       |       | 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>$e_{IN}=1V_{P-P}$ |

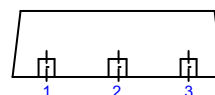
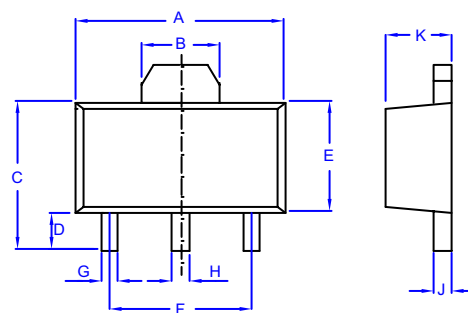
\*Note: Bypass Capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators

Typical Application:



### Three-Terminal Low Current Negative Voltage Regulator

### SOT-89



1. GND
2. IN (Case)
3. OUT

| DIMENSIONS |        |      |      |      | NOTES |
|------------|--------|------|------|------|-------|
| DIM        | INCHES |      | MM   |      |       |
|            | MIN    | MAX  | MIN  | MAX  |       |
| A          | .173   | .181 | 4.39 | 4.60 |       |
| B          | .063   | .071 | 1.60 | 1.80 |       |
| C          | .154   | .165 | 3.91 | 4.19 |       |
| D          | .031   | .039 | 0.80 | 1.00 |       |
| E          | .092   | .100 | 2.34 | 2.54 |       |
| F          | .118   | ---- | 3.00 | ---- | TYP   |
| G          | .013   | .019 | 0.33 | 0.48 |       |
| H          | .015   | .021 | 0.38 | 0.53 |       |
| J          | .015   | .016 | 0.38 | 0.41 |       |
| K          | .055   | .063 | 1.40 | 1.60 |       |

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