

## Features

- Maximum Output current  $I_o: 0.1A$
- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

## Absolute Maximum Ratings

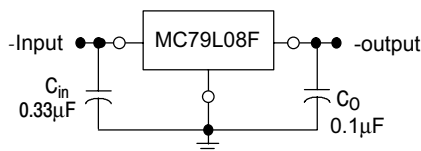
| Parameter                      | Symbol    | Value      | Unit |
|--------------------------------|-----------|------------|------|
| Input Voltage                  | $V_i$     | -30        | V    |
| Operating Junction Temperature | $T_{OPR}$ | -30---+75  | °C   |
| Storage Temperature Range     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

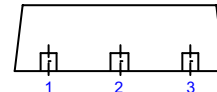
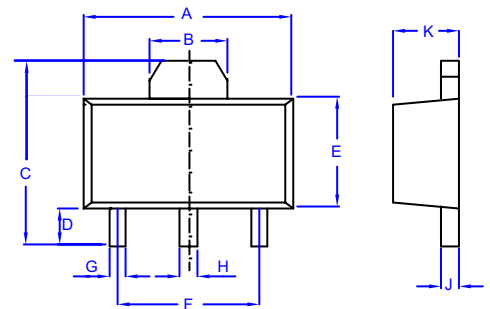
Typical Application:



## MC79L08F

## Three-Terminal Low Current Negative Voltage Regulator

## SOT-89



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

| DIMENSINS |        |      |      |      |       |
|-----------|--------|------|------|------|-------|
| DIM       | INCHES |      | MM   |      | NOTES |
|           | MIN    | MAX  | MIN  | MAX  |       |
| A         | .173   | .181 | 4.39 | 4.60 | REF.  |
| B         | .061   | ---- | 1.55 | ---- |       |
| C         | .154   | .165 | 3.91 | 4.25 |       |
| 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 |       |

## Ordering Information :

| Device         | Packing               |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 1Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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