



Micro Commercial Components

Micro Commercial Components  
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## MC79L12F

### Features

- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Case Material: Molded Plastic. UL Flammability Classification Rating 94-0 and MSL Rating 1
- Marking :Type Number

### Absolute Maximum Ratings

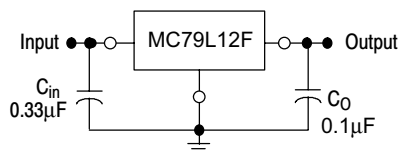
| Parameter                      | Symbol    | Value      | Unit |
|--------------------------------|-----------|------------|------|
| Input Voltage                  | $V_1$     | 30         | V    |
| Operating Junction Temperature | $T_{OPR}$ | -30---+75  | °C   |
| Storage Temperature Range     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

### Electrical Characteristics( $V_i=19V$ , $I_o=40mA$ , $0^\circ C < T_j < 125^\circ C$ , $C_1=0.33\mu F$ , $C_o=0.1\mu F$ , unless otherwise specified)

| Parameter            | Sym         | Min   | Typ         | Max   | Test conditions                                                                              |
|----------------------|-------------|-------|-------------|-------|----------------------------------------------------------------------------------------------|
| Output Voltage       | $V_o$       | 11.5V | 12.0V       | 12.5V | $V_i=19V$ , $I_o=40mA$                                                                       |
| Load Regulation      | $V_o - I_o$ |       | 16mV        | 100mV | $I_o=1mA-100mA$ , $V_i=19V$                                                                  |
| Line regulation      | $V_o - V_i$ |       | 36mV        | 250mV | $14.5V \leq V_i \leq 27V$ , $I_o=40mA$                                                       |
| Quiescent Current    | $I_q$       |       | 3.5mA       | 6.0mA | $V_i=19V$ , $I_o=40mA$                                                                       |
| Output Noise Voltage | $V_N$       |       | 210 $\mu V$ |       | $10Hz \leq f \leq 100KHz$<br>$V_i=19V$ , $I_o=40mA$                                          |
| Ripple Rejection     | RR          | 37dB  | 64dB        |       | $15V \leq V_i \leq 25V$ ,<br>$I_o=40mA$<br>$f=120Hz$ , $T_j=25^\circ C$<br>$e_{IN}=1V_{P-P}$ |

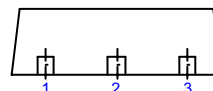
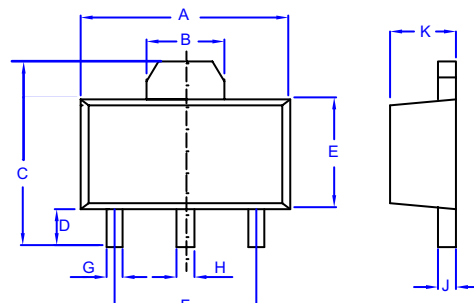
\*Note: Bypass Capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators

Typical Application:



### Three-Terminal Low Current Negative Voltage Regulator

### SOT-89



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

| DIM | INCHES |       | MM   |       | NOTES |
|-----|--------|-------|------|-------|-------|
|     | MIN    | MAX   | MIN  | MAX   |       |
| A   | .173   | .181  | 4.39 | 4.60  |       |
| B   | .061   | ----- | 1.55 | ----- | REF.  |
| 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  |       |

## Ordering Information

| Device           | Packing              |
|------------------|----------------------|
| (Part Number)-TP | Tape&Reel;1Kpcs/Reel |

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