



Micro Commercial Components
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MC79L08BP

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

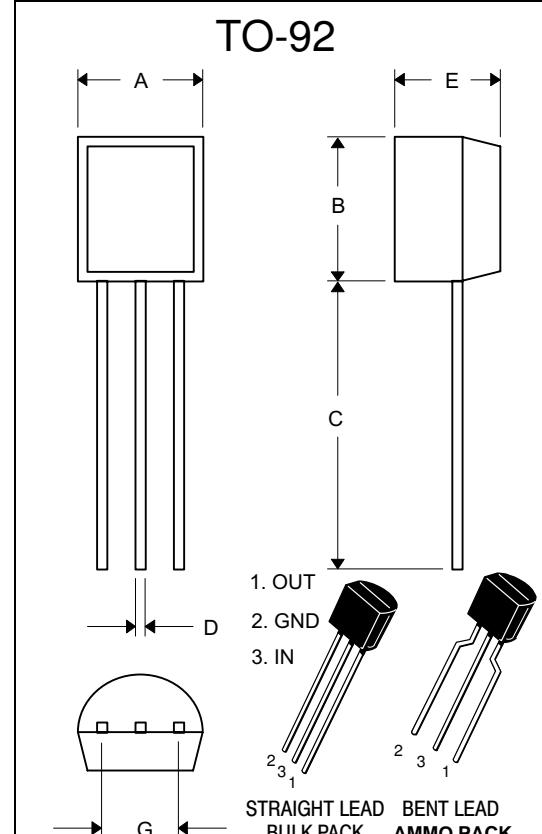
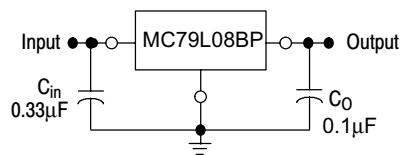
| Parameter | Symbol | Value | Unit |
|--------------------------------|-----------|------------|------|
| Input Voltage | V_i | 30 | V |
| Operating Junction Temperature | T_{OPR} | -30---+75 | °C |
| Storage Temperature Range | T_{STG} | -40---+125 | °C |

Electrical Characteristics ($V_i=14V$, $I_o=40mA$, $0^\circ C < T_j < 125^\circ C$, $C_1=0.33\mu F$, $C_0=0.1\mu F$, 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 μV | | $10Hz \leq f \leq 100KHz$, $V_i=14V$, $I_o=40mA$ |
| 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:



| 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.

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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