

Features

- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- No External Components Required
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

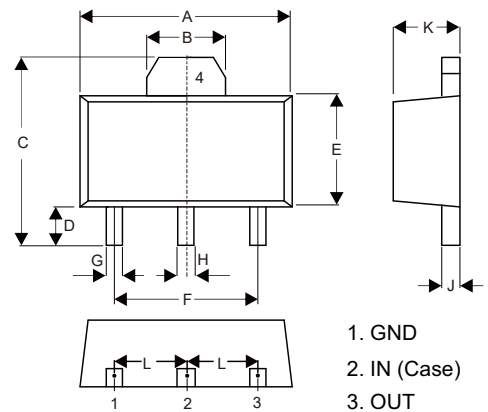
Maximum Ratings

| Parameter | Symbol | Value | Unit |
|--------------------------------------|-----------|---------|------|
| Input Voltage | V_i | -30 | V |
| Maximum Output Current | I_o | 0.1 | A |
| Operating Junction Temperature Range | T_{opr} | -30~75 | °C |
| Storage Temperature Range | T_{STG} | -40~125 | °C |

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

**Three-Terminal
Low Current
Negative Voltage
Regulators**

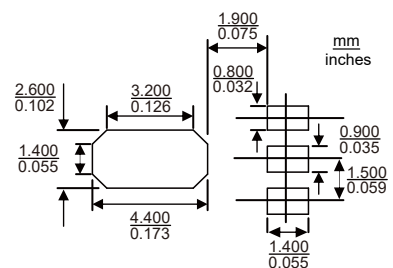
SOT-89



DIMENSIONS

| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | 0.169 | 0.185 | 4.30 | 4.70 | |
| B | 0.061 | | 1.55 | | TYP. |
| C | 0.154 | 0.171 | 3.91 | 4.35 | |
| D | 0.031 | 0.047 | 0.80 | 1.20 | |
| E | 0.089 | 0.104 | 2.25 | 2.65 | |
| F | 0.118 | | 3.00 | | TYP. |
| G | 0.013 | 0.020 | 0.33 | 0.52 | |
| H | 0.015 | 0.021 | 0.38 | 0.53 | |
| J | 0.014 | 0.017 | 0.35 | 0.44 | |
| K | 0.055 | 0.063 | 1.40 | 1.60 | |
| L | 0.059 | | 1.50 | | TYP. |

Suggested Solder Pad Layout

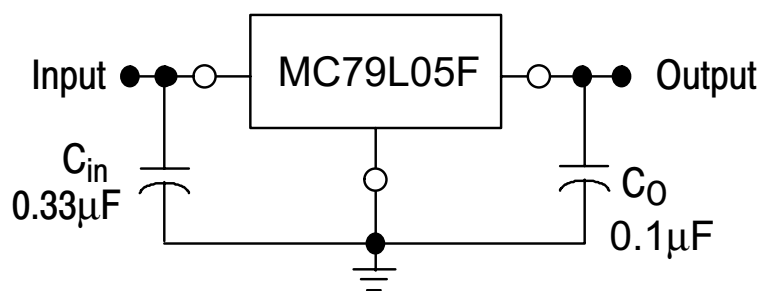


Electrical Characteristics

($V_i=10V$, $I_o=40mA$, $0^\circ C < T_j < 125^\circ C$, $C_i=0.33\mu F$, $C_o=0.1\mu F$, Unless Otherwise Specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|----------------------|-----------|---|------|------|------|---------|
| Output Voltage | V_o | $V_i=-10V$, $I_o=40mA$ | -4.8 | -5.0 | -5.2 | V |
| Load Regulation | V_o-I_o | $I_o=1mA-100mA$, $V_i=-10V$ | - | 7.0 | 60 | mV |
| Line Regulation | V_o-V_i | $-7.0V \leq V_i \leq -20V$, $I_o=40mA$ | - | 15 | 150 | mV |
| Quiescent Current | I_q | $V_i=-10V$, $I_o=40mA$ | - | 3.5 | 6.0 | mA |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$ $V_i=-10V$, $I_o=40mA$ | - | 120 | - | μV |
| Ripple Rejection | RR | $-8V \leq V_i \leq -18V$, $I_o=40mA$ $f=120Hz$, $T_j=25^\circ C$, $e_{iN}=1V_{P-P}$ | 41 | 71 | - | dB |

Typical Application



Ordering Information

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

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