

Features

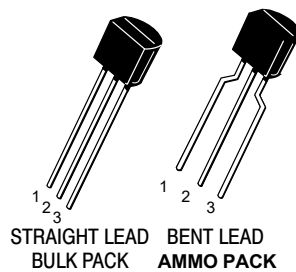
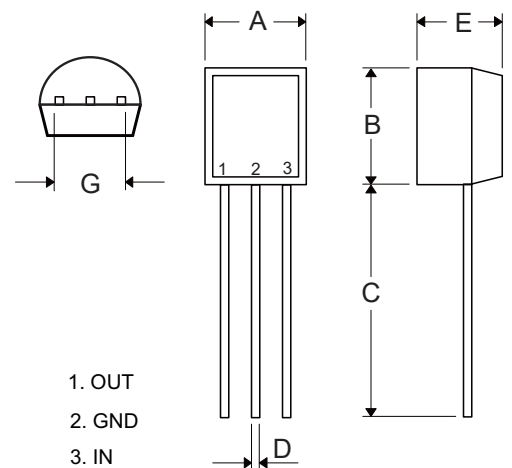
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- No External Components Required
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates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

Maximum Ratings

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

Three-Terminal Low Negative Voltage Regulators

TO-92



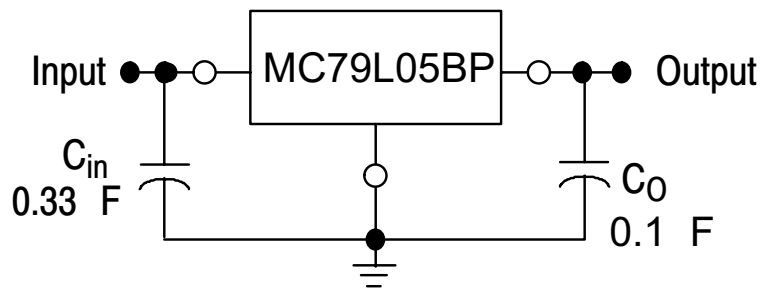
| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|-------|-------|---------------|
| | MIN | MAX | MIN | MAX | |
| A | 0.169 | 0.185 | 4.30 | 4.70 | |
| B | 0.169 | 0.185 | 4.30 | 4.70 | |
| C | 0.500 | ----- | 12.70 | ----- | |
| D | 0.015 | 0.022 | 0.38 | 0.55 | |
| E | 0.130 | 0.146 | 3.30 | 3.70 | |
| G | 0.095 | 0.105 | 2.42 | 2.67 | Straight Lead |
| | 0.173 | 0.220 | 4.40 | 5.60 | Bent |

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 | $-7V \leq V_i \leq -20V$, $I_o=40mA$ | - | 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-AP | Ammo Packing: 20Kpcs/Carton |
| Part Number-BP | Bulk: 100Kpcs/Carton |

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-BP-HF
 Adding "-HF" Suffix for Halogen Free, eg. Part Number-AP-HF

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