

Micro Commercial Components



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Features

- Maximum Output current Io: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

- Moisure Sensitivity Level 1 Halogen free available upon request by adding suffix "-HF" **Absolute Maximum Ratings**

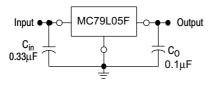
| Parameter | Symbol | Value | Unit |
|--------------------------------|------------------|---------|------|
| Input Voltage | V _{in} | -30 | V |
| Operating Junction Temperature | T _{OPR} | -30+75 | °C |
| Storage Temperature Range | T _{STG} | -40+125 | °C |

Electrical Characteristics(Vi=10V, Io=40mA, 0°C <Tj<125°C, C1=0.33uF. Co=0.1uF. unless otherwise specified)

| Parameter | Sym | Min | Тур | Max | Test conditions |
|-------------------------|---------------------------------|-------|-------|-------|--|
| Output Voltage | V ₀ | -4.8V | -5.0V | -5.2V | Vi=-10V, I ₀ =40mA |
| Load Regulation | V_{o} - I_{O} | | 7.0mV | 60mV | I₀=1mA-100mA, V¡=-10V |
| Line regulation | V _o - V _i | | 15mV | 150mV | -7V≦V _i ≦-20V, I _O =40mA |
| Quiescent Current | I _q | | 3.5mA | 6.0mA | Vi=-10V, I ₀ =40mA |
| Output Noise Voltage | V _N | | 120µV | | 10Hz≦f≦100KHz Vi=-10V, I₀=40mA |
| Ripple Rejection | RR | 41dB | 71dB | | $-8V \le V_1 \le -18V,$ $I_0=40mA$ $f=120Hz, T_j=25^{\circ}C$ $e_{iN}=1V_{P,P}$ |

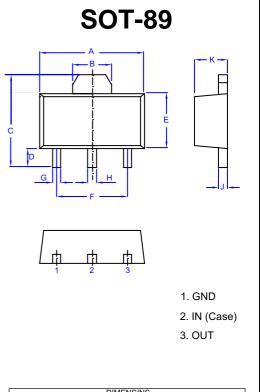
*Note: Bypass Capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators

Typical Application:



MC79L05F

Three-Terminal Low Current Negative Voltage Regulator



| DIM | INCHES | | M | NOTES | |
|-----|--------|------|------|-------|------|
| | MIN | MAX | MIN | MAX | |
| А | .173 | .181 | 4.39 | 4.60 | |
| В | .061 | | 1.55 | | REF. |
| С | .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 | |
| Н | .015 | .021 | 0.38 | 0.53 | |
| J | .015 | .016 | 0.38 | 0.41 | |
| К | .055 | .063 | 1.40 | 1.60 | |
| | | | | | |

www.mccsemi.com



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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