



MC79D05CDT

Three-Terminal Positive Voltage Regulators

Features

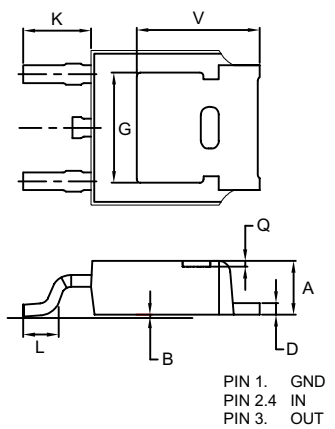
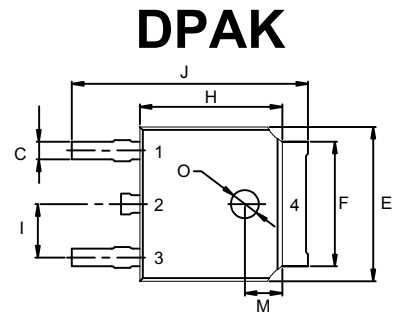
- Maximum output current I_{OM} : 1.5 A
- Output voltage V_o : -5 V
- Continuous total dissipation :1.25 W ($T_A = 25^\circ\text{C}$), 15 W ($T_C = 25^\circ\text{C}$)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings @ $T_A = 25^\circ\text{C}$, Unless Otherwise Noted

| Parameter | Symbol | Value | Unit |
|--------------------------------|-----------|------------|------------------|
| Input Voltage | V_i | -35 | V |
| Operating Junction Temperature | T_{OPR} | 0---+125 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55---+150 | $^\circ\text{C}$ |

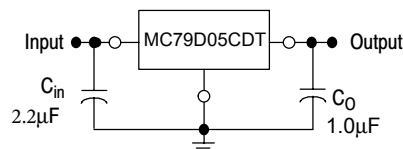
Electrical Characteristics ($V_i = -10\text{V}$, $I_o = 500\text{mA}$, $0^\circ\text{C} < T_j < 125^\circ\text{C}$, $C_i = 2.2\mu\text{F}$, $C_o = 1.0\mu\text{F}$, Unless Otherwise Specified)

| Parameter | Sym | Min | Typ | Max | Test conditions |
|--------------------------|---------------------------|--------|--------------------------|----------------|--|
| Output Voltage | V_o | -4.8V | -5V | -5.2V | $T_j = 25^\circ\text{C}$ |
| | | -4.75V | -5V | -5.25V | $-7\text{V} \leq V_i \leq -2.0\text{V}$, $5\text{mA} \leq I_o \leq 1.0\text{A}$, $P_D \leq 15\text{W}$ |
| Load Regulation | ΔV_o | | 15mV | 100mV | $5\text{mA} \leq I_o \leq 1.5\text{A}$, $T_j = 25^\circ\text{C}$ |
| | | | 5mV | 50mV | $250\text{mA} \leq I_o \leq 750\text{mA}$, $T_j = 25^\circ\text{C}$ |
| Line regulation | ΔV_o | | 12.5mV | 50mV | $-7\text{V} \leq V_i \leq -2.5\text{V}$, $T_j = 25^\circ\text{C}$ |
| | | | 4.0mV | 15mV | $-8\text{V} \leq V_i \leq -1.2\text{V}$, $T_j = 25^\circ\text{C}$ |
| Quiescent Current | I_q | | 1.5mA | 2.0mA | $T_j = 25^\circ\text{C}$ |
| Quiescent Current Change | ΔI_q | | | 0.5mA 0.5mA | $-7.0\text{V} \leq V_i \leq -2.5\text{V}$, $5\text{mA} \leq I_o \leq 1.0\text{A}$ |
| Output Voltage drift | $\Delta V_o / \Delta V_T$ | | -0.4mV/ $^\circ\text{C}$ | | $I_o = 5\text{mA}$ |
| Output Noise Voltage | V_N | | 125 μV | | $10\text{Hz} \leq f \leq 100\text{Hz}$ |
| Ripple Rejection | RR | 54dB | 60dB | | $-8\text{V} \leq V_i \leq -1.8\text{V}$, $f = 120\text{Hz}$ |
| Dropout Voltage | V_d | | 1.1V | | $I_o = 1\text{A}$, $T_j = 25^\circ\text{C}$ |
| Peak Current | I_{pk} | | 2.1A | | $T_j = 25^\circ\text{C}$ |



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|------|-------|------|
| | INCHES | | MM | | |
| A | 0.087 | 0.094 | 2.20 | 2.40 | |
| B | 0.000 | 0.005 | 0.00 | 0.13 | |
| C | 0.026 | 0.034 | 0.66 | 0.86 | |
| D | 0.018 | 0.023 | 0.46 | 0.58 | |
| E | 0.256 | 0.264 | 6.50 | 6.70 | |
| F | 0.201 | 0.215 | 5.10 | 5.46 | |
| G | 0.190 | | 4.83 | | |
| H | 0.236 | 0.244 | 6.00 | 6.20 | |
| I | 0.086 | 0.094 | 2.18 | 2.39 | |
| J | 0.386 | 0.409 | 9.80 | 10.40 | |
| K | 0.114 | | 2.90 | | |
| L | 0.055 | 0.067 | 1.40 | 1.70 | |
| M | 0.063 | | 1.60 | | |
| O | 0.043 | 0.051 | 1.10 | 1.30 | |
| Q | 0.000 | 0.012 | 0.00 | 0.30 | |
| V | 0.211 | | 5.35 | | |

TYPICAL APPLICATION





Micro Commercial Components

Ordering Information :

| Device | Packing |
|----------------|-------------------------|
| Part Number-TP | Tape&Reel: 2.5Kpcs/Reel |

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

*****LIFE SUPPORT*****

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

*****CUSTOMER AWARENESS*****

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.