# Three-Terminal Positive Voltage Regulators

## Features

- Output Current in Excess of 0.5 Ampere
- Internal Thermal Overload Protection
- Internal Short-circuit Current Limiting
- High Power Dissipation Capability
- Moisture Sensitivity Level 1
- Halogen Free. “Green” Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

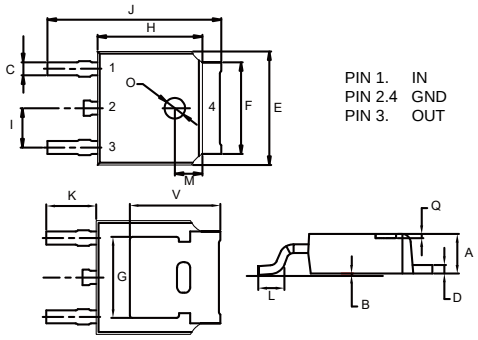
## Maximum Ratings

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Input Voltage | $V_I$ | 8~25 | V |
| Storage Temperature Range | $T_{STG}$ | -65~150 | ℃ |

Note:

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

## DPAK(TO-252)




PIN 1. IN
PIN 2.4 GND
PIN 3. OUT

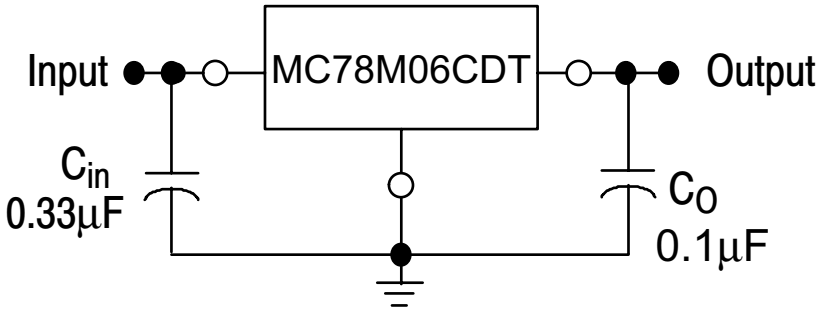
| DIMENSIONS | | | | | |
|---|---|---|---|---|---|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | |
| A | 0.087 | 0.094 | 2.20 | 2.40 | |
| B | 0.000 | 0.005 | 0.00 | 0.13 | |
| C | 0.026 | 0.034 | 0.66 | 0.86 | |
| D | 0.018 | 0.023 | 0.46 | 0.58 | |
| E | 0.256 | 0.264 | 6.50 | 6.70 | |
| F | 0.201 | 0.215 | 5.10 | 5.46 | |
| G | 0.190 | | 4.83 | | TYP. |
| 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 | | TYP. |
| L | 0.055 | 0.067 | 1.40 | 1.70 | |
| M | 0.063 | | 1.60 | | TYP. |
| O | 0.043 | 0.051 | 1.10 | 1.30 | |
| Q | 0.000 | 0.012 | 0.00 | 0.30 | |
| V | 0.211 | | 5.35 | | TYP. |

## Electrical Characteristics

**($V_i$=10V, $I_o$=350mA, 0°C＜$T_j$＜ 125 °C,$C_i$=0.33uF, $C_o$=0.1uF,Unless Otherwise Specified)**

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Output Voltage | Vo | $T_j$=25°C | 5.75 | 6.0 | 6.25 | V |
| | | 8V≤$V_i$≤21V,5mA≤$I_o$≤350mA , $P_D$=15W | 5.70 | 6.0 | 6.30 | V |
| Load Regulation | △Vo | 5mA≤$I_o$≤500mA,$T_j$=25°C | - | - | 120 | mV |
| | | 5mA≤$I_o$≤200mA,$T_j$=25°C | - | - | 60 | mV |
| Line Regulation | △Vo | 8.0V≤$V_1$≤25V,$I_o$=0.2A | - | - | 100 | mV |
| | | 9.0V≤$V_1$≤25V,$I_o$=0.2A | - | - | 50 | mV |
| Quiescent Current | Iq | $T_j$=25°C | - | - | 6.0 | mA |
| Quiescent Current Change | $\triangle I_q$ | 9V≤$V_i$≤25V,$I_o$=200mA, 5mA≤$I_o$≤350mA | - | - | 0.8 | mA |
| | | | - | - | 0.5 | mA |
| Output Noise Voltage | $V_N$ | 10Hz≤f≤100Hz | - | 45 | - | μV |
| Dropout Voltage | $V_d$ | $T_j$=25°C | - | 2.0 | - | V |

## Typcial Application



## Ordering Information

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


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