

MC78M00, MC78M00A Series



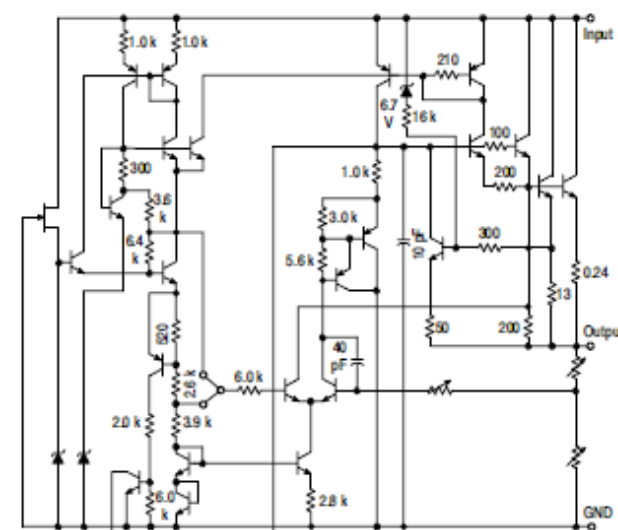
500 mA Positive Voltage Regulators

The MC78M00/MC78M00A Series positive voltage regulators are identical to the popular MC7800 Series devices, except that they are specified for only half the output current. Like the MC7800 devices, the MC78M00 three-terminal regulators are intended for local, on-card voltage regulation.

Internal current limiting, thermal shutdown circuitry and safe-area compensation for the internal pass transistor combine to make these devices remarkably rugged under most operating conditions. Maximum output current, with adequate heatsinking is 500 mA.

Features

- No External Components Required
 - Internal Thermal Overload Protection
 - Internal Short Circuit Current Limiting
 - Output Transistor Safe-Area Compensation
 - MC78M00A High Accuracy ($\pm 2\%$)
- Available for 5.0 V, 8.0 V, 12 V and 15 V
- Pb-Free Packages are Available*



This device contains 28 active transistors.

Figure 1. Representative Schematic Diagram

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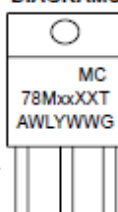
<http://onsemi.com>



TO-220
T SUFFIX
CASE 221A

Heatsink surface
connected to Pin 2.

MARKING DIAGRAMS



xx = Voltage Option
XX = Appropriate Suffix Options
A = Assembly Location
WL = Wafer Lot
Y = Year
WW = Work Week
G = Pb-Free Package



DPAK-3
DT SUFFIX
CASE 369C

Heatsink surface (shown as terminal 4 in case outline drawing) is connected to Pin 2.



xxxxx = Device Type and Voltage Option Code
A = Assembly Location
L = Wafer Lot
Y = Year
WW = Work Week
G = Pb-Free Package

Pin 1. Input
2. Ground
3. Output

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 10-14 of this data sheet.

DEVICE MARKING INFORMATION

See general marking information in the device marking section on page 10 of this data sheet.

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.