



Product Overview

MC78M24: Linear Voltage Regulator, Positive, 24 V, 500 mA

For complete documentation, see the [data sheet](#)

Product Description

The MC78M00/MC78M00A positive linear voltage regulator is identical to the popular MC7800 Series devices, except it is specified for only half the output current. Like the MC7800 device, 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 linear voltage regulators 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*

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSRR (dB)	Noise (μV_{rms})	Package Type
MC78M24BTG	Pb-free Halide free	Active	Single	Positive	24	0.5	40	2				TO-220-3
MC78M24CTG	Pb-free Halide free	Active	Single	Positive	24	0.5	40	2				TO-220-3

For more information please contact your local sales support at www.onsemi.com

Created on: 7/11/2015