



## Product Overview

### MC78M12A: Linear Voltage Regulator, Positive, 12 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 ( $\mu V_{rms}$ )	Package Type
MC78M12ABDTG	Pb-free Halide free	Active	Single	Positive	12	0.5	35	2				DPAK-3
MC78M12ABDTRKG	Pb-free Halide free	Active	Single	Positive	12	0.5	35	2				DPAK-3
MC78M12ABTG	Pb-free Halide free	Active	Single	Positive	12	0.5	35	2				TO-220-3
MC78M12ACDTG	Pb-free Halide free	Active	Single	Positive	12	0.5	35	2				DPAK-3
MC78M12ACDTRKG	Pb-free Halide free	Active	Single	Positive	12	0.5	35	2				DPAK-3
MC78M12ACTG	Pb-free Halide free	Active	Single	Positive	12	0.5	35	2				TO-220-3

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Created on: 7/11/2015