REGULATEUR DE TENSION POSITIVE À 3 BROCHES

fabricant

REFERENCE DU COMPOSANT

Order this document by MC7800/D

MOTOROLA

Three-Terminal Positive Voltage Regulators

MC7800, MC7800A, LM340, LM340A Series

THREE–TERMINAL POSITIVE FIXED VOLTAGE REGULATORS

SEMICONDUCTOR TECHNICAL DATA

FIXE (NON REGLABLE)

$I_{S\,MAX}$ = 1A

These voltage regulators are monolithic integrated circuits designed as fixed–voltage regulators for a wide variety of applications including local, on–card regulation. These regulators employ internal current limiting, thermal shutdown, and safe–area compensation. With adequate heatsinking they can deliver output currents in excess of 1.0 A. Although designed primarily as a fixed voltage regulator, these devices can be used with external components to obtain adjustable voltages and currents.

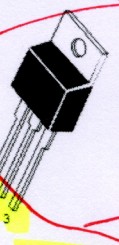
- Output Current in Excess of 1.0 A
- No External Components Required
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- Output Transistor Safe–Area Compensation
- Output Voltage Offered in 2% and 4% Tolerance
- Available in Surface Mount D^2PAK and Standard 3–Lead Transistor Packages
- Previous Commercial Temperature Range has been Extended to a Junction Temperature Range of –40°C to +125°C

GAMME DE TEMPERATURE

BOITIER PLASTIQUE

T SUFFIX
PLASTIC PACKAGE
CASE 221A

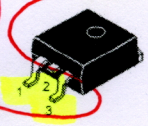
Heatsink surface connected to Pin 2.



BROCHAGE

Pin 1. Input
2. Ground
3. Output

D2T SUFFIX
PLASTIC PACKAGE
CASE 936
(D^2PAK)



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

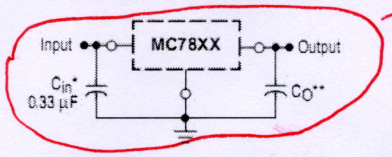
TENSION DE SORTIE DISPONIBLE

DEVICE TYPE/NOMINAL OUTPUT VOLTAGE

MC7805AC LM340AT–5 MC7805C LM340T–5	5.0 V	MC7812C LM340T–12	12 V
MC7806AC MC7806C	6.0 V	MC7815AC LM340AT–15 MC7815C LM340T–15	15 V
MC7808AC MC7808C	8.0 V	MC7818AC MC7818C	18 V
MC7809C	9.0 V	MC7824AC MC7824C	24 V
MC7812AC LM340AT–12	12 V		

SCHEMA DE CABLAGE

STANDARD APPLICATION



A common ground is required between the input and the output voltages. The input voltage must remain typically 2.0 V above the output voltage even during the low point on the input ripple voltage.

XX, These two digits of the type number indicate nominal voltage.

* C_{in} is required if regulator is located an appreciable distance from power supply filter.

** C_O is not needed for stability; however, it does improve transient response. Values of less than 0.1 µF could cause instability.

ORDERING INFORMATION

Device	Output Voltage Tolerance	Operating Temperature Range	Package
MC78XXACT	2%	T_J = –40° to +125°C	Insertion Mount
LM340AT–XX			
MC78XXACD2T			Surface Mount
MC78XXCT	4%		Insertion Mount
LM340T–XX			
MC78XXCD2T			Surface Mount

XX indicates nominal voltage.

Rev 5

À RETENIR : DEVICE - REGULATOR - PACKAGE FIXED - VOLTAGE - RANGE