

The Data Book Project

DatasheetArchive.com has launched an ambitious effort to digitize thousands of obsolete data books and technical manuals, making them searchable via the DatasheetArchive website.

Scroll down to see the scanned document.

Datasheet and Data Book Site: http://www.datasheetarchive.com

Development Site: http://www.datasheets.org.uk

5V VOLTAGE REGULATOR 12 V VOLTAGE REGULATOR 15 V VOLTAGE REGULATOR

HOUTPUT (2)

GND (3)

JINPUT (1)

GENERAL DESCRIPTION

This series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

This series will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided, the thermal shutdown circuit takes over preventing the IC from overheating.

FEATURES

- Internal thermal overload protection
- No external components required
- Output transis or safe area protection
- Internal short circuit current limit

VOLTAGE RANGE

78	0	5,											,		٠.					5	ĺ	7
78	į	2.		 												۰		1	ļ	2	V	1
78	١	5.				 							,						l	5	١	!

ABSOLUTE MAXIMUM RATINGS

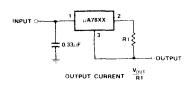
Toput Voltage	
 (Output Voltage Options 5V through 18V) 	35V
(Output Voltage Option 24V)	40V
Internal Power Dissipation	Internally Limited
Operating Temperature Range	0°C to +70°C
Maximum function Temperature	
Storage Temperature Range	65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	

Current Regulator

PIN CONNECTION

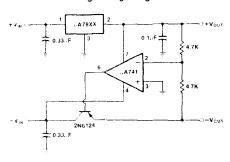
TOP VIEW

0

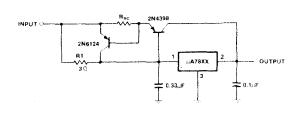


TYPICAL APPLICATIONS

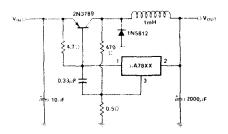
± Tracking Voltage Regulator



High Output Current, Short Circuit Protected



Switching Regulator



Positive and Negative Regulator

