

See outline drawing No. 97 for dimensions.

CONNECTION DIAGRAM

Stock No.

19651 G

19655X

19660E

Metal Can Top View	Reg. Output
Current Limit 1	7 Compensation
Booster Output 2	6 Feedback
Unreg.Input 3	5 Ref. Bypass
	Ground

GENERAL DESCRIPTION

LM100 Series

REFERENCE TABLE

Code

LM100H

LM200H

LM300H

The LM100, LM200 and LM300 are integrated voltage regulators designed for a wide range of applications from digital power supplies to precision regulators for analog circuitry. Built on a single silicon chip, these devices are encapsulated in an 8-lead, low profile TO-5 header.

Positive Voltage Regulators

FEATURES

Output voltage adjustable from 2V to 30V (LM300 adjustable from 2V to 20V)

Better than one per cent load and line regulation

One percent temperature stability Adjustable short-circuit limiting

Output currents in excess of 5A possible by adding external transistors

Can be used as either a linear or high-efficiency switching regulator.

Additional features are fast response to both load and line transients, small standby power dissipation, freedom from oscillations with varying resistive and reactive loads, and the ability to start reliably on any load within rating.

The LM100 is specified for operation over the -55°C to +125°C military temperature range. The LM200 and LM300 are low cost, commercial-industrial versions of the LM100. They are identical to the LM100 except that they are specified for operation from -25°C to 85°C and from 0°C to 80°C respectively.

ABSOLUTE MAXIMUM RATINGS

Input Voltage LM100, LM200 LM300	40∨ 35∨
Input-Output Voltage Differential LM100, LM200 LM300	40 V
Power Dissipation LM100, LM200	30V 800mW
LM300 Operating Temperature	800mW
Range LM100 LM200 LM300	55°C to +150°C 25°C to +85°C 0°C to 70°C
Storage Temperature Range	65°C to 150°C
Lead Temperature (soldering, 10 sec)	300°C