LM733 Series
Differential Video Amplifier

REFERENCE TABLE

Code	Stock No.
LM733H	**31133E**
LM733CH	**31134C**
LM733CN	**31135A**

GENERAL DESCRIPTION

The LM733/LM733C is a two-stage, differential input, differential output, wide-band video amplifier. The use of internal series-shunt feedback gives wide bandwidth with low phase distortion and high gain stability. Emitter-follower outputs provide a high current drive, low impedance capability. Its 120 MHz bandwidth and selectable gains of 10, 100, and 400, without need for frequency compensation, make it a very useful circuit for memory element drivers, pulse amplifiers, and wide-band linear gain stages.

FEATURES

120 MHz bandwidth

250kΩ input resistance

Selectable gains of 10, 100, 400

No frequency compensation

High common mode rejection ratio at high frequencies

APPLICATIONS

Magnetic tape systems

Disk file memories

Thin and thick film memories

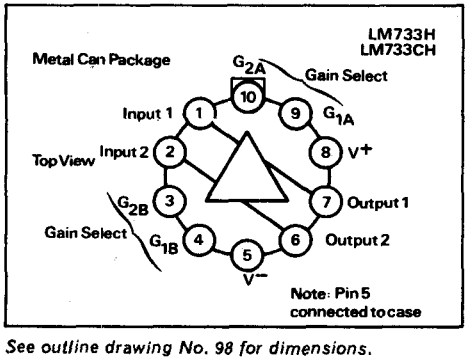
Woven and plated wire memories

Wide-band video amplifiers

ABSOLUTE MAXIMUM RATINGS

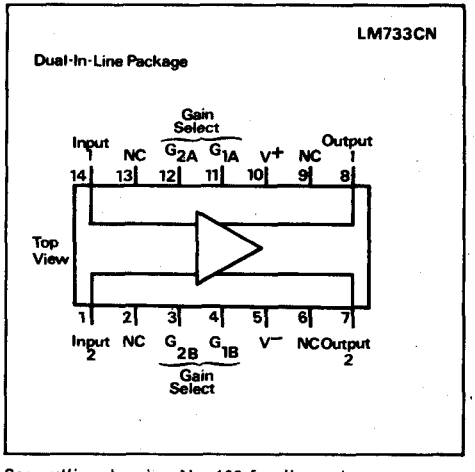
Differential input voltage	±5V
Common mode input voltage	±6V
V_{CC}	±8V
Output current	10mA
Power dissipation (Note 1)	500mW
Junction temperature	+150°C
Storage temperature range	−65°C to +150°C
Operating temperature range LM733C, LM733	−55°C to +125°C 0°C to +70°C
Lead temperature (Soldering, 10 sec)	300°C

CONNECTION DIAGRAM



See outline drawing No. 98 for dimensions.

CONNECTION DIAGRAM



See outline drawing No. 109 for dimensions.

PLEASE QUOTE STOCK NO. AND MANUFACTURER'S CODE WHEN ORDERING