

FEATURES

- SHORT CIRCUIT PROTECTION
- OFFSET VOLTAGE NULL CAPABILITY
- LARGE COMMON-MODE AND DIFFERENTIAL VOLTAGE RANGES
- LOW POWER CONSUMPTION
- NO LATCH UP

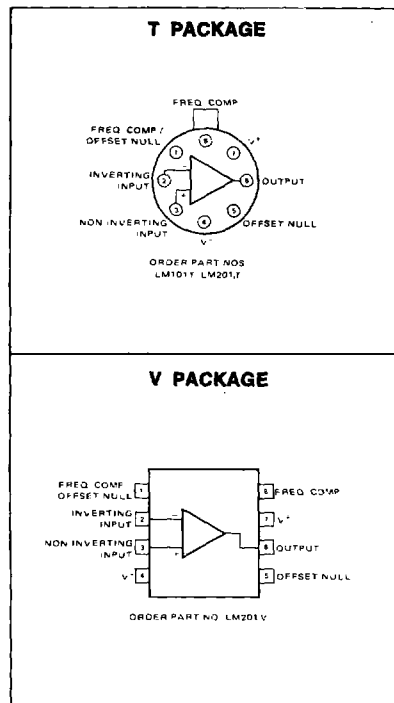
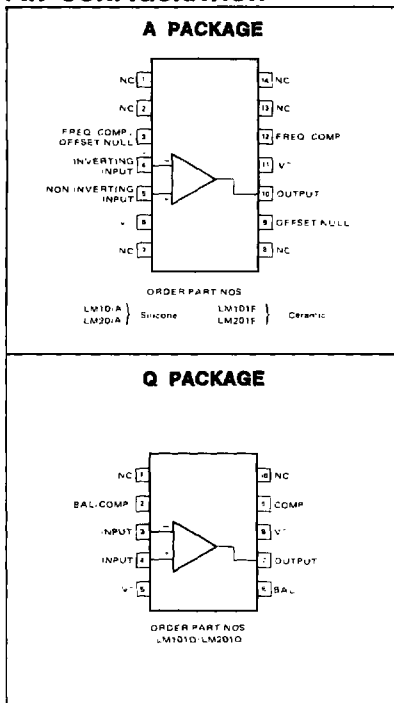
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	$\pm 22V$
Power Dissipation (Note 1)	500mW
Differential Input Voltage	$\pm 30V$
Input Voltage (Note 2)	$\pm 15V$
Output Short Circuit Duration	Indefinite
Operating Temperature Range	
LM101	$-55^{\circ}C$ to $125^{\circ}C$
LM201	$0^{\circ}C$ to $70^{\circ}C$
Storage Temperature Range	$-65^{\circ}C$ to $150^{\circ}C$
Lead Temperature (Soldering, 60 sec.)	$300^{\circ}C$

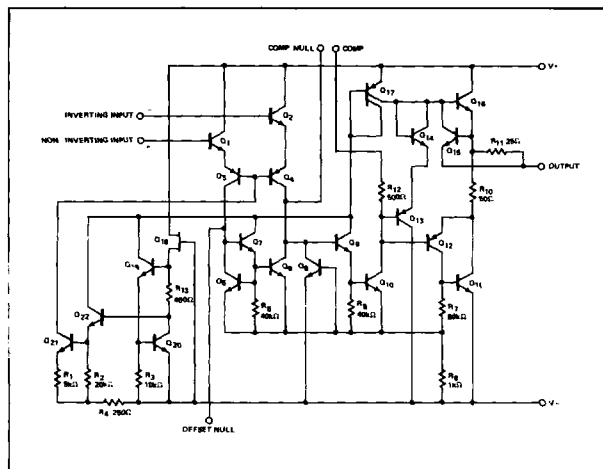
NOTES:

1. Absolute maximum rating holds for all packages. The maximum junction temperature is $150^{\circ}C$ for the LM101 and $100^{\circ}C$ for the LM201. For operation at elevated temperatures, derate according to appropriate thermal resistances given under package information.
2. For supply voltages less than $\pm 15V$, the absolute maximum input voltage is equal to the supply voltage.

PIN CONFIGURATION



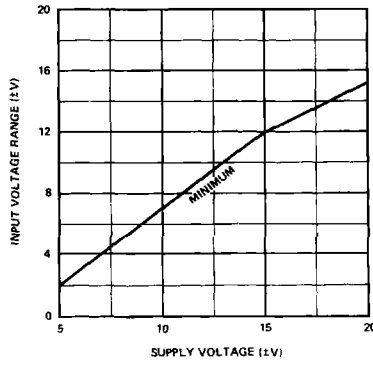
EQUIVALENT CIRCUIT



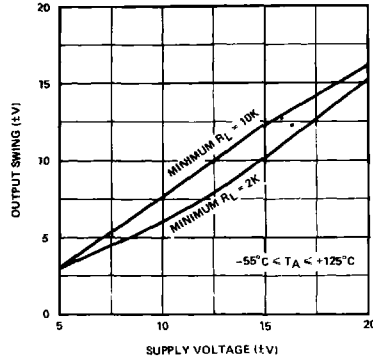
TYPICAL CHARACTERISTIC CURVES

LM101

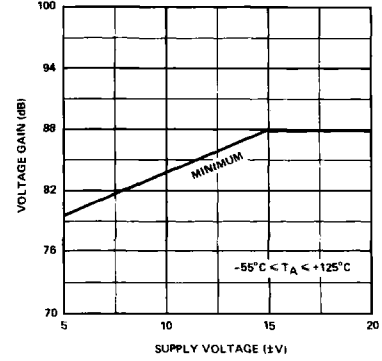
INPUT VOLTAGE RANGE VERSUS SUPPLY VOLTAGE



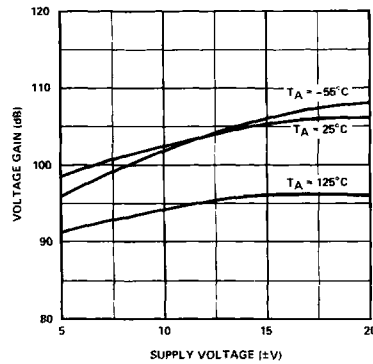
OUTPUT SWING VERSUS SUPPLY VOLTAGE



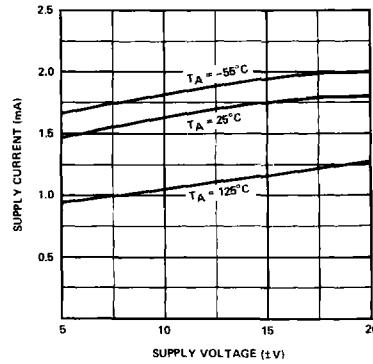
VOLTAGE GAIN VERSUS SUPPLY VOLTAGE



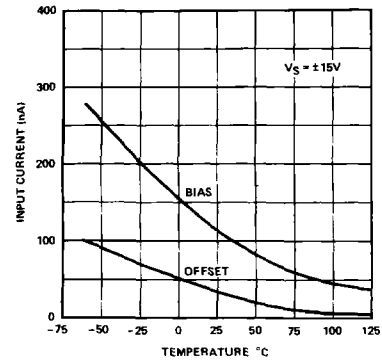
VOLTAGE GAIN



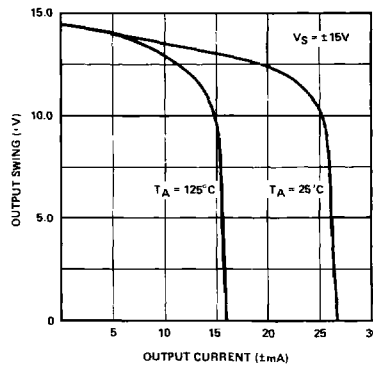
SUPPLY CURRENT



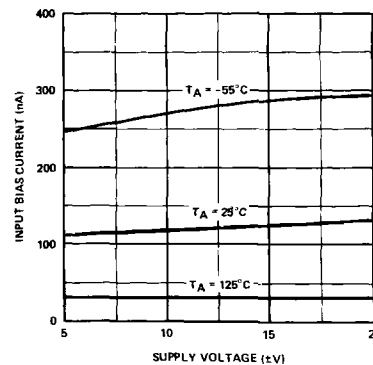
INPUT CURRENT



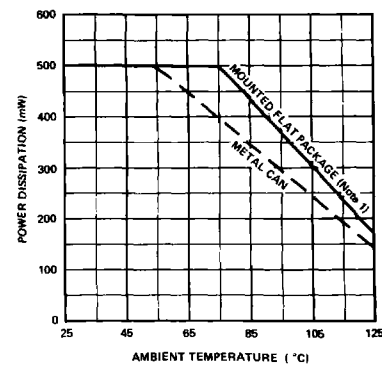
CURRENT LIMITING



INPUT CURRENT



MAXIMUM POWER DISSIPATION

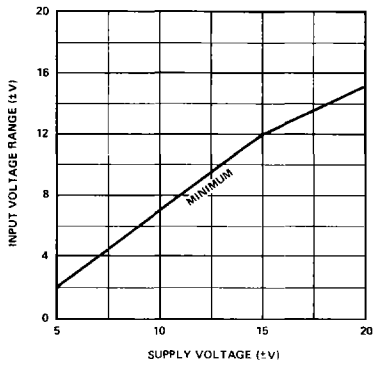


ANALOG

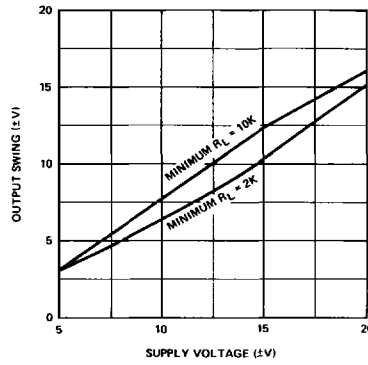
TYPICAL CHARACTERISTIC CURVES (Cont'd)

LM201

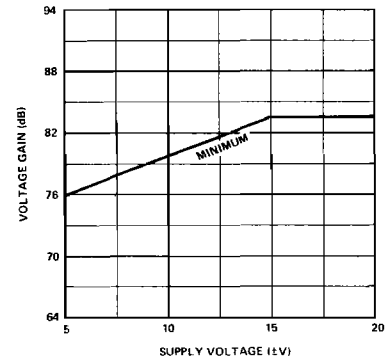
INPUT VOLTAGE RANGE VERSUS SUPPLY VOLTAGE



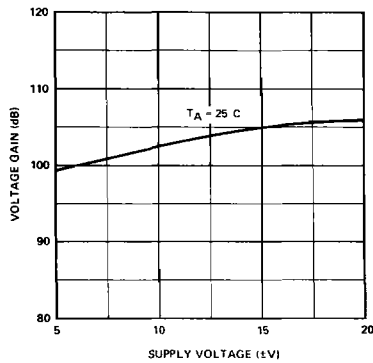
OUTPUT SWING VERSUS SUPPLY VOLTAGE



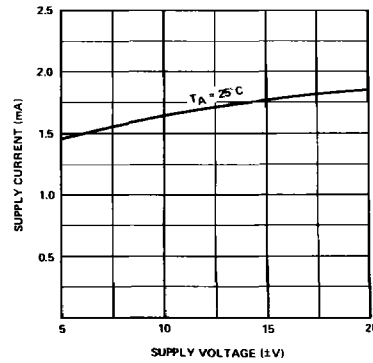
VOLTAGE GAIN VERSUS SUPPLY VOLTAGE



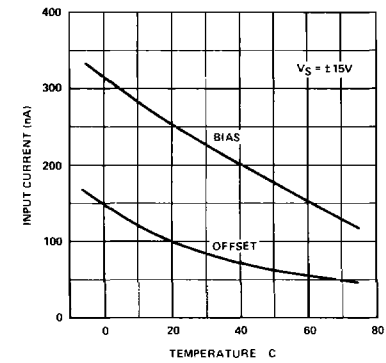
VOLTAGE GAIN



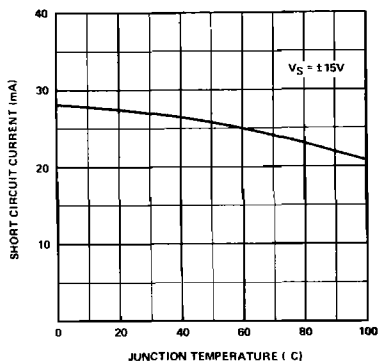
SUPPLY CURRENT



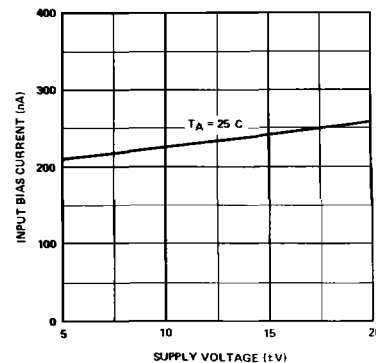
INPUT CURRENT



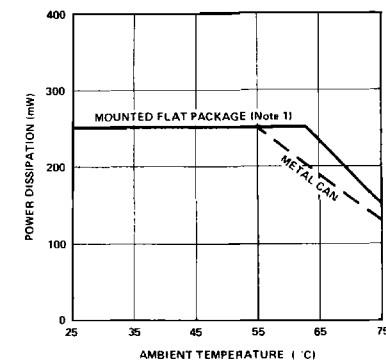
SHORT CIRCUIT CURRENT



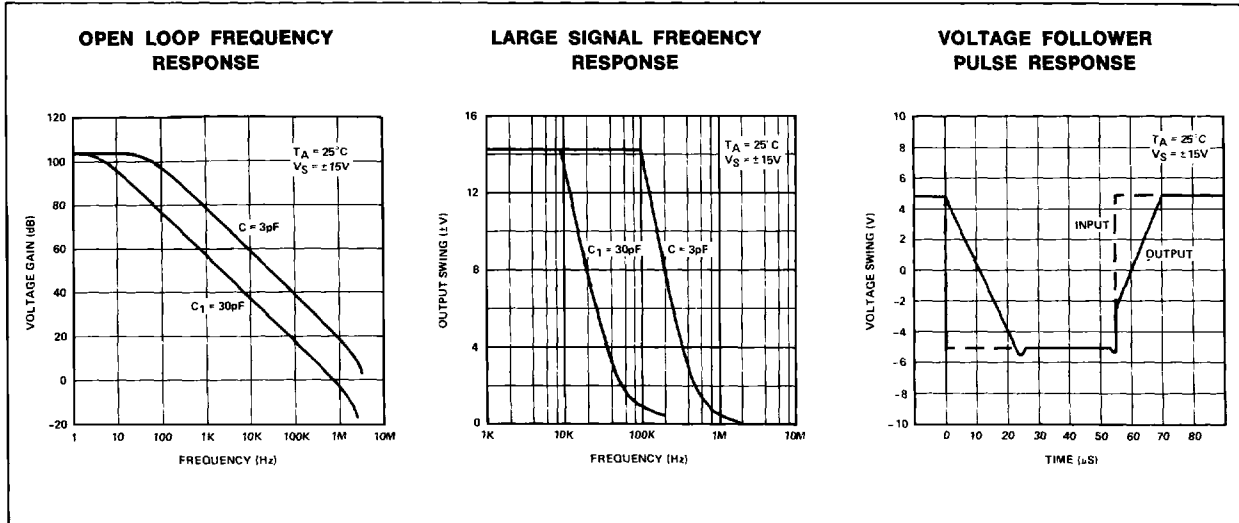
INPUT BIAS CURRENT



MAXIMUM POWER DISSIPATION



TYPICAL CHARACTERISTIC CURVES (Cont'd)



TYPICAL APPLICATIONS (Pin numbers shown refer to T or V package only)

