

FEATURES

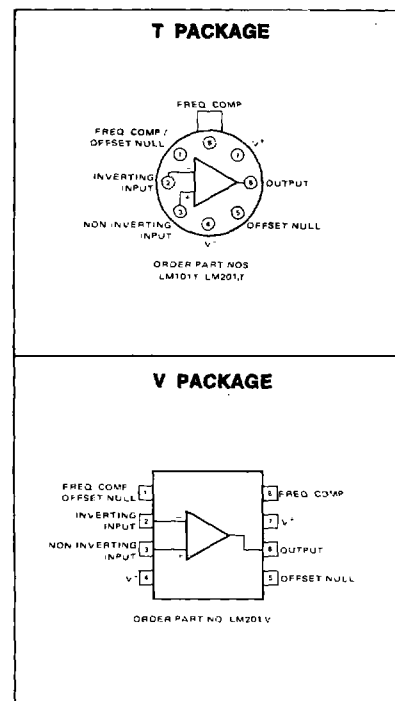
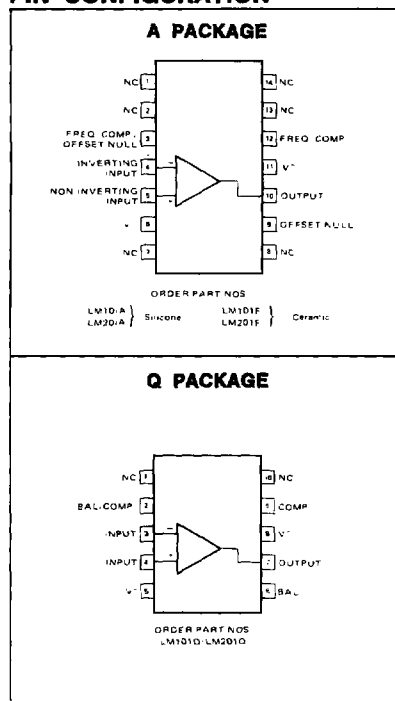
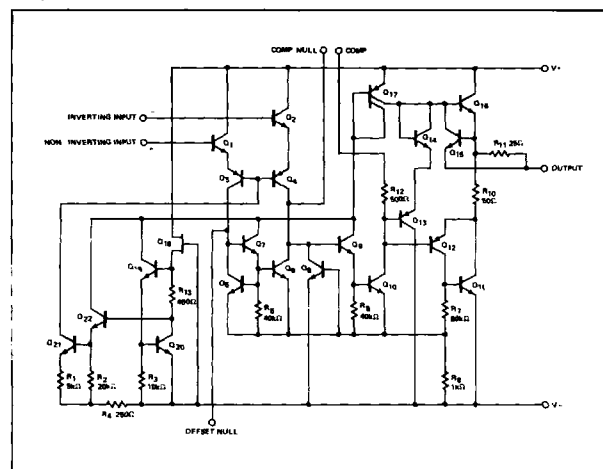
- SHORT CIRCUIT PROTECTION
- OFFSET VOLTAGE NULL CAPABILITY
- LARGE COMMON-MODE AND DIFFERENTIAL VOLTAGE RANGES
- LOW POWER CONSUMPTION
- NO LATCH UP

ABSOLUTE MAXIMUM RATINGS

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

NOTES:

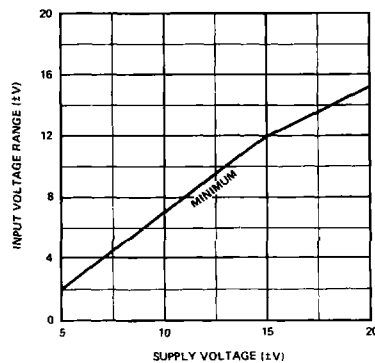
1. Absolute maximum rating holds for all packages. The maximum junction temperature is 150°C for the LM101 and 100°C for the LM201. For operation at elevated temperatures, derate according to appropriate thermal resistances given under package information.
2. For supply voltages less than $\pm 15\text{V}$,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

PIN CONFIGURATION**EQUIVALENT CIRCUIT**

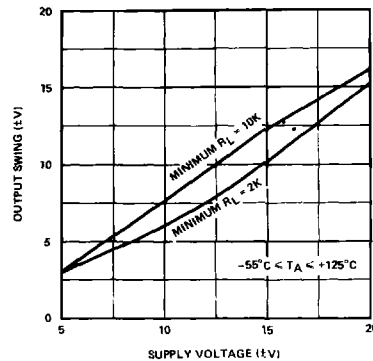
TYPICAL CHARACTERISTIC CURVES

LM101

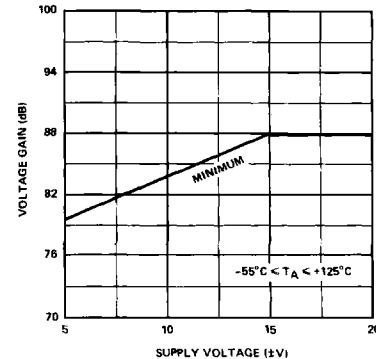
INPUT VOLTAGE RANGE VERSUS SUPPLY VOLTAGE



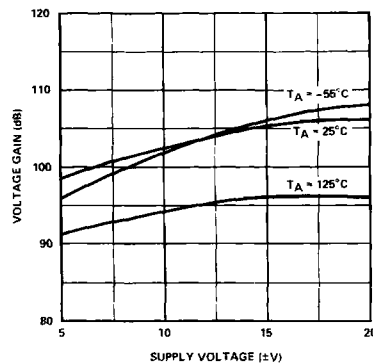
OUTPUT SWING VERSUS SUPPLY VOLTAGE



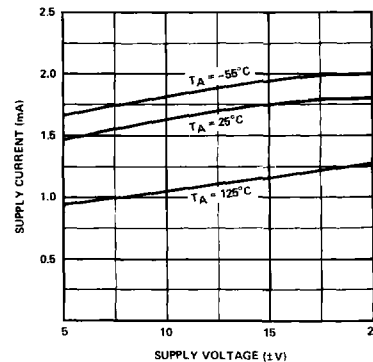
VOLTAGE GAIN VERSUS SUPPLY VOLTAGE



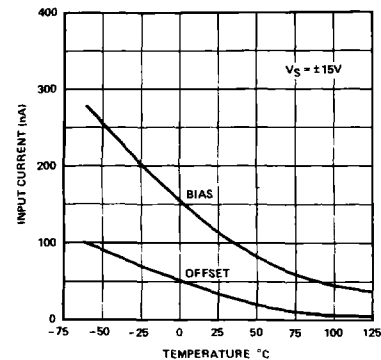
VOLTAGE GAIN



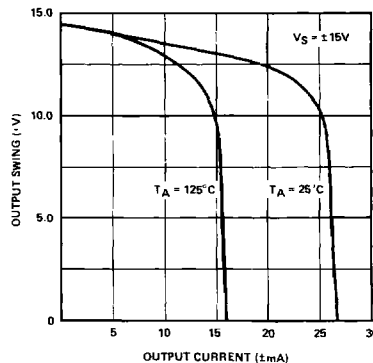
SUPPLY CURRENT



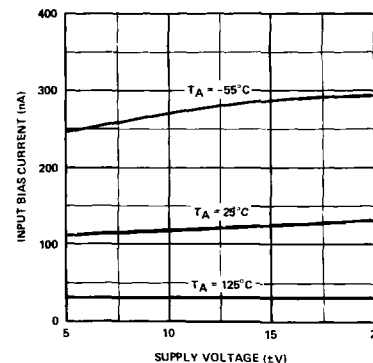
INPUT CURRENT



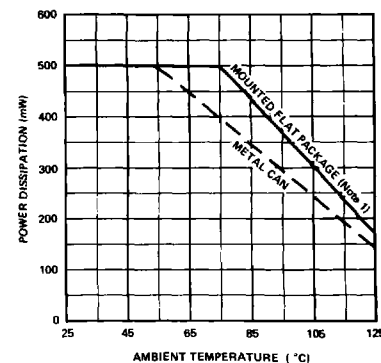
CURRENT LIMITING



INPUT CURRENT



MAXIMUM POWER DISSIPATION

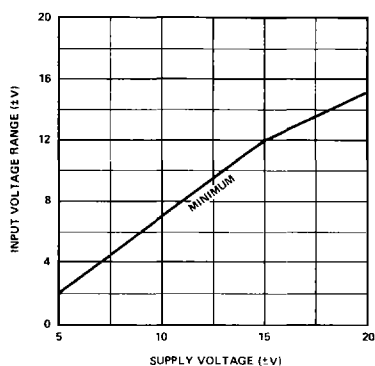


ANALOG

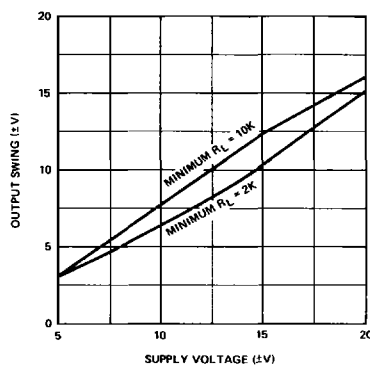
TYPICAL CHARACTERISTIC CURVES (Cont'd)

LM201

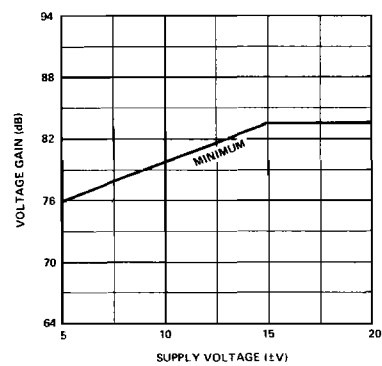
INPUT VOLTAGE RANGE VERSUS SUPPLY VOLTAGE



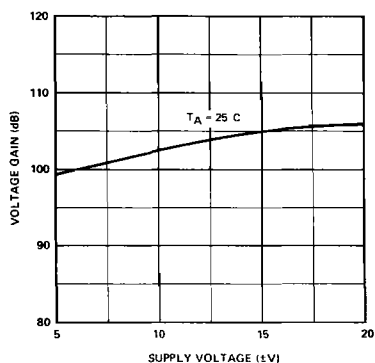
OUTPUT SWING VERSUS SUPPLY VOLTAGE



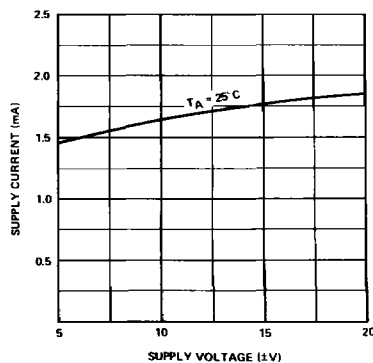
VOLTAGE GAIN VERSUS SUPPLY VOLTAGE



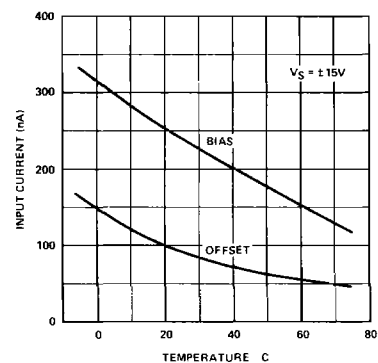
VOLTAGE GAIN



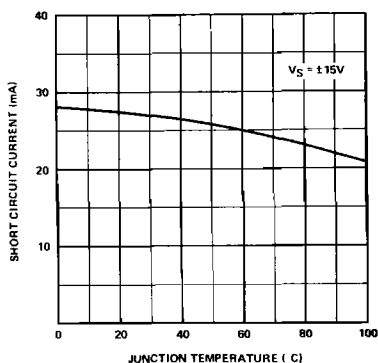
SUPPLY CURRENT



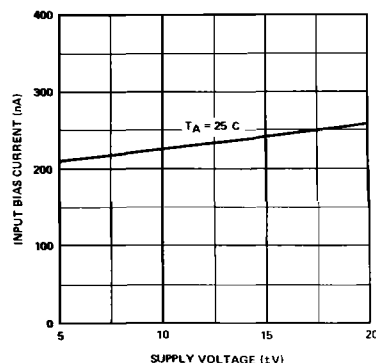
INPUT CURRENT



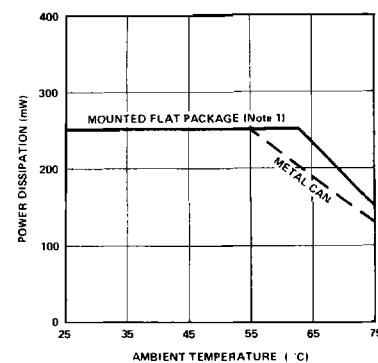
SHORT CIRCUIT CURRENT



INPUT CURRENT

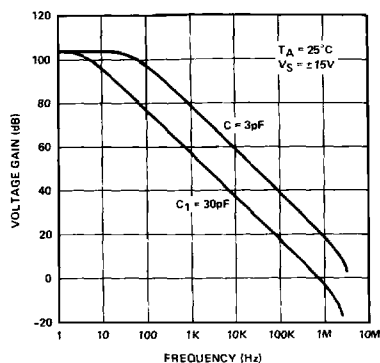


MAXIMUM POWER DISSIPATION

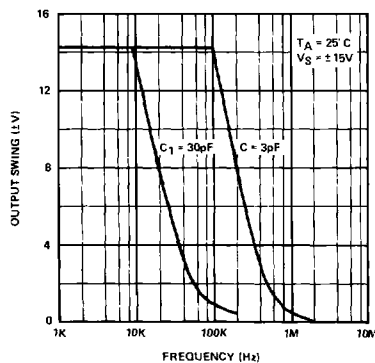


TYPICAL CHARACTERISTIC CURVES (Cont'd)

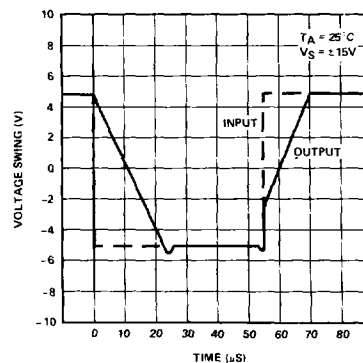
OPEN LOOP FREQUENCY RESPONSE



LARGE SIGNAL FREQUENCY RESPONSE

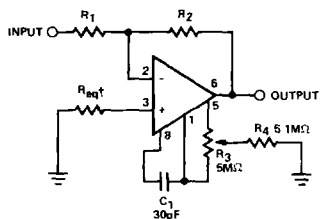


VOLTAGE FOLLOWER PULSE RESPONSE



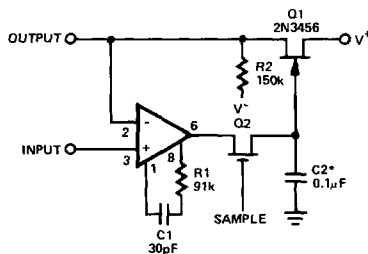
TYPICAL APPLICATIONS (Pin numbers shown refer to T or V package only)

INVERTING AMPLIFIER WITH BALANCING CIRCUIT



*May be zero or equal to parallel combination of R_1 and R_2 for minimum offset.

LOW DRIFT SAMPLE AND HOLD



*Polycarbonate Dielectric Capacitor