

HIGH CURRENT DRIVERS

GMC high current drivers contain several significant improvements over presently existing industry standard designs while still maintaining pin for pin compatibility.

- Reverse voltage protection
- Input pin protection from accidentally shorting to negative voltage
- Dramatic reduction in temperature drift of quiescent output currents over the full military temperature range
- Dramatic reduction in changes in quiescent output currents when the +5 volt supply is varied over the 4.5V to 5.5V military TTL operating voltage specification

L230 (Dual channel driver) — Current Source Output

This driver is exceptionally versatile in that each channel provides pin options for both positive and negative 30 ma and 50 ma output currents which are independent of each other. This enables the L230 to span a broad spectrum of medium to slow speed applications.

FEATURES

- Inputs are inverting when mode control is held high (+5V) and non-inverting when mode control is held low (0V)
- To increase positive output current from +30 ma to +50 ma connect +50 ma pin to VCC
- To increase negative output current from -30 ma to -50 ma connect -50 ma pin to VEE
- T_{ON} and T_{OFF} is 100 nanoseconds maximum
- True current source and sink outputs
- Package-22 lead, Reference Figure B

PIN FUNCTIONS

1. Output 1	12. -50 ma 2
2. +50 ma 1	13. N/C
3. VCC (+5V $\pm$ 0.5V)	14. N/C
4. Input 1	15. N/C
5. Mode control 1	16. N/C
6. Ground	17. N/C
7. Mode control 2	18. N/C
8. Input 2	19. N/C
9. +50 ma 2	20. N/C
10. VEE (-5V to -15V)	21. N/C
11. Output 2	22. -50 ma 1

L325, L425, L625, L350, L450, L650 Current Source Output

These multichannel drivers offer excellent packaging density with as many as six independent drivers packaged in a single 5/8" square flatpack. In addition, they have great application flexibility as both inverting and non-inverting capability is included for each channel.

FEATURES

- L325: Three channel $\pm$ 25 ma
- L425: Four channel $\pm$ 25 ma
- L625: Six channel $\pm$ 25 ma
- L350: Three channel $\pm$ 50 ma
- L450: Four channel $\pm$ 50 ma
- L650: Six channel $\pm$ 50 ma
- Inputs are inverting when mode control is held high (+5V) and non-inverting when mode control is held low (0V)
- True current source and sink outputs
- T_{ON} and T_{OFF} is 100 nanoseconds maximum
- Package-22 lead, Reference Figure C

PIN FUNCTIONS

1. VCC (+5V $\pm$ 0.5V)	12. Ground
2. Output 1	13. Input 4
3. Mode control 1	14. Mode control 4
4. Input 1	15. Output 4
5. Output 2	16. Input 5
6. Mode control 2	17. Mode control 5
7. Input 2	18. Output 5
8. Output 3	19. Input 6
9. Mode control 3	20. Mode control 6
10. Input 3	21. Output 6
11. Ground	22. VEE (-5V to -15V)

