



DAC 08H
DAC 08E
DAC 08C
8-BIT DIGITAL-TO-ANALOG CONVERTORS

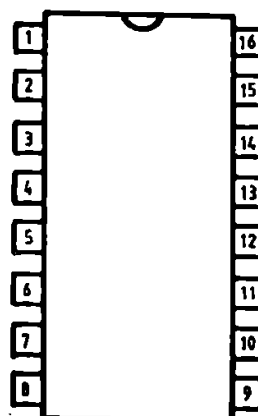
The DAC 08 is a monolithic 8-bit high-speed current output digital-to-analog convertor (DAC) featuring typical settling time of 100 ns. When using as a multiplying DAC, monotonic performance over a 40:1 reference current range is possible. The circuit also features high compliance complementary current outputs to allow differential output voltages of 20 Vpp with simple resistor loads.

The noise immune inputs of the circuit will accept TTL levels with the logic threshold pin V_{LC} - pin 1 grounded. The performance and characteristics of the device are essentially unchanged over the full power supply range (+/-4.5V to +/-18V).

Features

- Operating temperature	0 ...	+70 °C
- Storage temperature	-25 ...	+70 °C
- Power dissipation	max.	500 mW
- Supply voltage	max.	36 V
- Differential input voltage	V- ...	V+ V
- Common mode input voltage	V- ...	V+ V
- Nonlinearity	DAC 08H ...	max. +/- 0.1%/FS
	DAC 08E ...	max. +/- 0.19%/FS
	DAC 08C ...	max. +/- 0.39%/FS

- | 1. V_{LC}
- | 2. I OUT
- | 3. V-
- | 4. I OUT
- | 5. B1 (MSB)
- | 6. B2
- | 7. B3
- | 8. B4
- | 9. B5
- | 10. B6
- | 11. B7
- | 12. B8 (LSB)
- | 13. V+
- | 14. V_{REF} (+)
- | 15. V_{REF} (-)
- | 16. Compensation



PACKAGE MP-117 / TOP VIEW