The L6208 is a DMOS Fully Integrated Stepper Motor Driver with non-dissipative Overcurrent Protection, realized in MultiPower-BCD technology, which combines isolated DMOS Power Transistors with CMOS and bipolar circuits on the same chip. The device includes all the circuitry needed to drive a two-phase bipolar stepper motor including: a dual DMOS Full Bridge, the constant off time PWM Current Controller that performs the chopping regulation and the Phase Sequence Generator, that generates the stepping sequence. Available in PowerDIP24 (20+2+2), PowerSO36 and SO24 (20+2+2) packages, the L6208 features a non-dissipative overcurrent protection on the high side Power MOSFETs and thermal shutdown.

**Typical Applications**
- Bipolar Stepper Motor

**Description**

- OPERATING SUPPLY VOLTAGE FROM 8 TO 52V
- 5.6A OUTPUT PEAK CURRENT (2.8A RMS)
- R\(\text{DS(ON)}\) 0.3\(\Omega\) TYP. VALUE @ T\(\text{j} = 25°C\)
- OPERATING FREQUENCY UP TO 100KHz
- NON DISSIPATIVE OVERCURRENT PROTECTION
- DUAL INDEPENDENT CONSTANT \(t\) OFF PWM CURRENT CONTROLLERS
- FAST/SLOW DECAY MODE SELECTION
- FAST DECAY QUASI-SYNCHRONOUS RECTIFICATION
- DECODING LOGIC FOR STEPPER MOTOR
- FULL AND HALF STEP DRIVE
- CROSS CONDUCTION PROTECTION
- THERMAL SHUTDOWN
- UNDER VOLTAGE LOCKOUT
- INTEGRATED FAST FREE WHEELING DIODES

**Ordering Numbers:**
- L6208N (PowerDIP24)
- L6208PD (PowerSO36)
- L6208D (SO24)

**Diagram**