The L6227 is a DMOS Dual Full Bridge designed for motor control applications, realized in MultiPower-BCD technology, which combines isolated DMOS Power Transistors with CMOS and bipolar circuits on the same chip. The device also includes two independent constant off time PWM Current Controllers that perform the chopping regulation. Available in PowerDIP24 (20+2+2), PowerSO36 and SO24 (20+2+2) packages, the L6227 features a non-dissipative overcurrent protection on the high side Power MOSFETs and thermal shutdown.

**Typical Applications**
- Bipolar Stepper Motor
- Dual DC Motor

**Description**

- **Operating Supply Voltage**: From 8 to 52V
- **2.8A Output Peak Current** (1.4A DC)
- **R\(\text{DS(ON)}\)**: 0.73\(\Omega\) Typ. Value @ \(T_j = 25 \, ^\circ\text{C}\)
- **Operating Frequency**: Up to 100KHz
- **Non-Dissipative Overcurrent Protection**
- **Dual Independent Constant \(t\) OFF PWM Current Controllers**
- **Slow Decay Synchronous Rectification**
- **Cross Conduction Protection**
- **Thermal Shutdown**
- **Under Voltage Lockout**
- **Integrated Fast Free Wheeling Diodes**

**Ordering Numbers**
- L6227N (PowerDIP24)
- L6227PD (PowerSO36)
- L6227D (SO24)

**Block Diagram**

- **Charge Pump**
- **Voltage Regulator**
- **Temperature Protection**
- **Over Current Detection**
- **Gate Logic**
- **PWM**
- **One Shot Monostable**
- **Masking Time**
- **Sense Comparator**