



## Product Overview

### LV8712T: Stepping Motor Driver, Constant-Current Control, PWM

For complete documentation, see the data sheet

#### Product Description

The LV8712T is a microstepping motor driver with built-in translator for easy operation. It supports full-step, half-step, quarter-step, and 1/8-step resolution. The LV8712T is optimal for driving stepping motors of scanners and small printers.

#### Features

- Excitation mode can be set to 2-phase, 1-2 phase, W1-2 phase, or 2W1-2 phase
- Microstep can control easily by the CLK-IN input.
- Output ON resistance RON = 1.1 (upper and lower total, typical, Ta = 25C)
- Stand-by Current: 0uA
- TSSOP24 Package
- Single-channel PWM constant-current control stepping motor driver incorporated.
- Power-supply voltage of motor VM max = 18V
- Output current IO max = 0.8A
- A thermal shutdown circuit and a low voltage detecting circuit are built into.

#### Benefits

- Various Step Adjustment Available
- Easy control
- High Efficiency
- Low Consumption
- Small Design

#### Applications

- Stepper Motors
- Computing & Peripherals
- Industrial

#### End Products

- Point-of-Sale Printers
- Flatbed Scanner
- Document Scanner
- PoE Point of Sales Terminal
- PoE Security Camera

#### Part Electrical Specifications

| Product       | Compliance             | Status | V <sub>M</sub> Min (V) | V <sub>M</sub> Max (V) | V <sub>CC</sub> Min (V) | V <sub>CC</sub> Max (V) | I <sub>O</sub> Max (A) | I <sub>O</sub> Peak Max (A) | Step Resolution | Control Type | Feedback Method | Current Sense     | Regulator Output | Fault Detection | Flyback Protection | R <sub>DS(on)</sub> Typ (Ω) | Package Type |
|---------------|------------------------|--------|------------------------|------------------------|-------------------------|-------------------------|------------------------|-----------------------------|-----------------|--------------|-----------------|-------------------|------------------|-----------------|--------------------|-----------------------------|--------------|
| LV8712T-TLM-H | Pb-free<br>Halide free | Active | 4                      | 16                     | 2.7                     | 5.5                     | 0.8                    | 1                           | ?               | Clock        |                 | External Resistor |                  | UVLO            |                    | 1.1                         | TSSOP-24     |

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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