



# SPMD150STP

## 1.5 A stepper motor driver module

Data brief

### Features

- Wide supply voltage range, up to 50 V
- 1.5 A output peak current
- Full/Half step and micro stepping drive capability
- Logic signals TTL/CMOS compatible
- Programmable motor phase current
- Selectable slow / fast current decay
- Operating frequency up to 100 kHz
- Non dissipative over current protection
- Remote shut-down
- Thermal shut-down
- Module size: 50.8 x 50.8 x 14.7 mm

### Description

SPMD150STP is a simple and compact stepper motor drive module to drive two phase bipolar stepper motor.

The module is a fully tested, proven solution. Including controller, driver and two full bridges packed into a unique metal case, SPMD150STP performs Full/Half and micro-stepping mode, eliminating the need for external component or heat sink.

Among the main features of the module let's underline the current controller that performs the chopping regulation and the phase sequence generator generating the stepping sequence. The module can be easily interfaced to the host microprocessor. The output stage significantly reduces commutation and conduction losses.

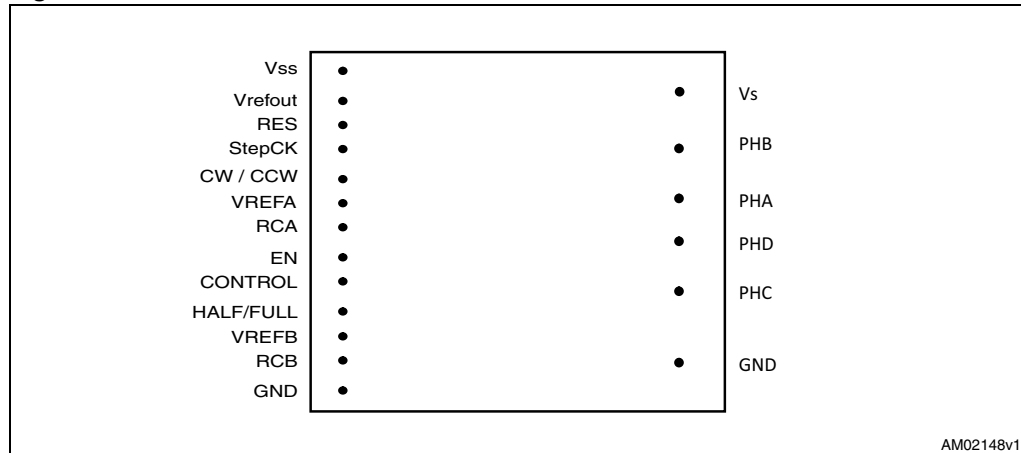
The SPMD150STP is self-protected against over-current and thermal shutdown.



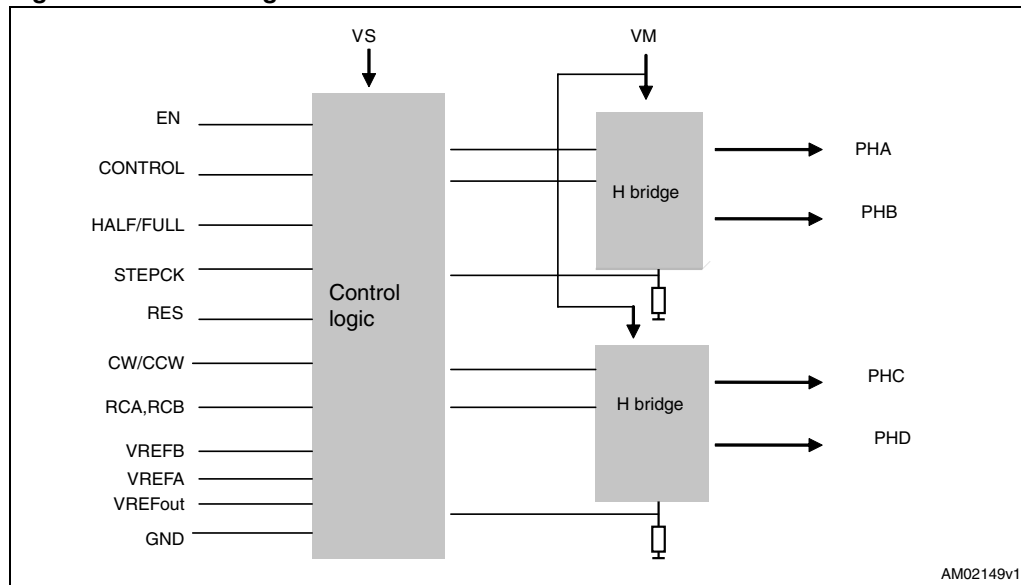
Table 1. Device summary

Order code
SPMD150STP

**Figure 1. Pin out**



**Figure 2. Block diagram**



# 1 Revision history

**Table 2. Document revision history**

Date	Revision	Changes
03-Mar-2009	1	Initial release

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