



STEVAL-IFP005V1

Single channel high-side driver evaluation board

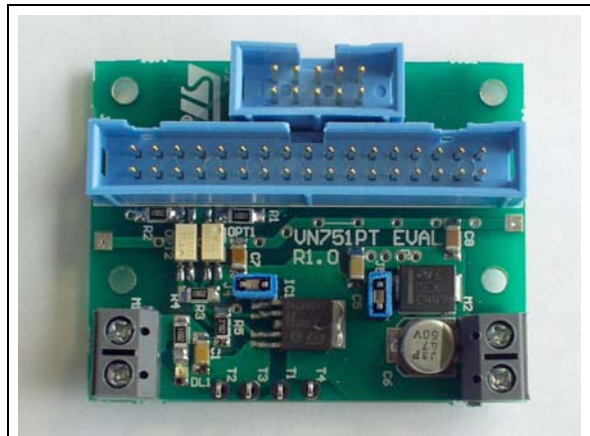
Data Brief

Features

- CMOS compatible inputs
- Thermal shutdown
- Single channel 2.5A I_{nom}
- Shorted load protection
- Undervoltage and overvoltage shutdown
- Protection against loss of ground
- Very low stand-by current
- Excellent thermal behavior
- Power supply up to 45V

Description

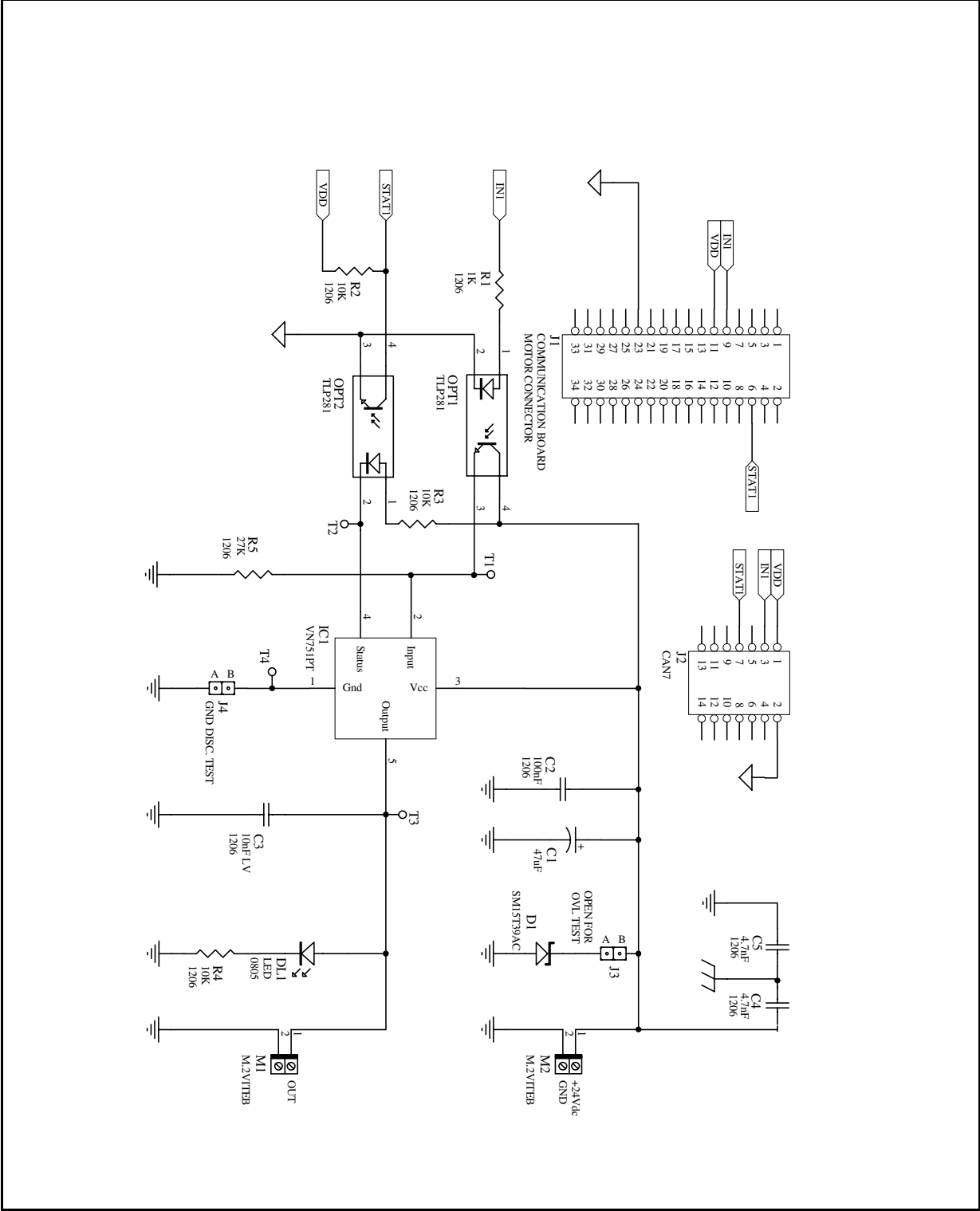
The purpose of this design is to demonstrate the features of the VN751PT high-side driver. The application offers robustness and complies with EMC industrial standards. It implements short circuit/overload protection and thermal management as well, achieving best in class MTBF values. The reference design is suitable for use in Programmable Logic Controllers (PLCs) as well as to drive generic loads which require up to 2.5A of nominal current (the typical current limitation is 4.5 - 5 A). Thanks to the very low R_{DSon} (only 60mOhm Typ. @ 25 °C) the device allow very low power consumption during the operation and for this reason it represent an ideal solution for IP65 / IP67 requirements. The device is compliant with IEC 61131-2 (Programmable Controllers International Standard).



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1 Board schematic

Figure 1. Scheme



2 Revision history

Table 1. Revision history

Date	Revision	Changes
04-Jun-2007	1	Initial release.

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