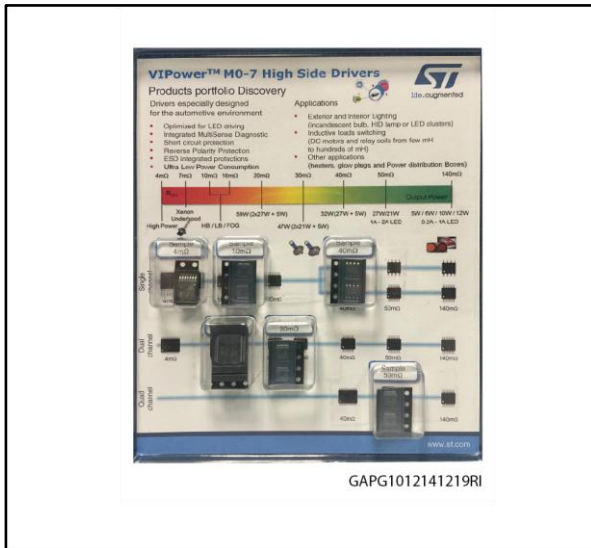# SAMPLEKITM0-7

M0-7 Sample kit box

GAPG1012141219RI

- Immediate evaluation of M0-7 devices with demonstration examples
- The kit includes:
  - 10 samples
  - Printed card providing overview of product portfolio, key features, main applications, package description.

Description

The SAMPLEKITM0-7 provides a selection of M0-7 samples representative of the entire family useful for evaluating and promoting M0-7 VIPower product family.

Table 1: Device summary

Order code	Reference
SAMPLEKITM0-7	M0-7 Sample kit box

Features

Channels	$R_{DS(on)}$	Package
Single	4 mΩ 7 mΩ	Octapak
Single	10 mΩ	PowerSSO-16
Single	40 mΩ	SO-8
Double	12 mΩ	PowerSSO-36
Double	20 mΩ	PowerSSO-16
Quad (alternatively)	50 mΩ	PowerSSO-16

Contents

1 Overview

MO-7 high-side drivers are manufactured using ST proprietary VIPower® technology and housed in PowerSSO-16, Octapak and PowerSSO-36 packages. They are intended to drive 12 V automotive grounded loads through a 3 V and 5 V CMOS-compatible interface, and to provide protection and diagnostics. The family integrates advanced protective functions such as load current limitation, overload active management by power limitation and overtemperature shutdown with configurable latch-off. A FaultRST pin unlatches the output in case of fault or disables the latch-off functionality. A dedicated multifunction multiplexed analog output pin delivers sophisticated diagnostic functions such as high precision proportional load current sense, supply voltage feedback and chip temperature sense, in addition to the detection of overload and short circuit to ground, short to V_{CC} and OFF-state open-load. A sense enable pin allows OFF-state diagnosis to be disabled during the module low-power mode as well as external sense resistor sharing among similar devices.

2   Revision history

Table 2: Revision history

Date	Revision	Changes
07-Jan-2015	1	Initial release.

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