

STK984-190-E

Power Integrated Module (PIM), MOSFET, 40 V, 30 A



Product Overview

For complete documentation, see the data sheet.

The STK984-190-E is a MOSFET power integrated module (PIM) containing 6 MOSFETs in a three-phase bridge (B6) configuration and a seventh MOSFET used as a reverse battery protection switch. The compact module is 29.6 mm x 18.2 mm and is 4.3 mm high. The MOSFET module uses a DBC substrate for excellent thermal performance. The module is suitable for 12 V automotive and industrial applications with motors rated up to 300 W.

Features

- Three-phase MOSFET bridge with reverse battery protection switch
- Device is PPAP Capable
- 40 V MOSFETs with 30 A continuous and 85 A pulse current ratings
- Motor power up to 300 W for 12 V system
- $RDS(ON) = 9.5 \text{ m}\Omega \text{ max}$
- $QGD = 9.8 \text{ nC typ}$

Applications

- Automotive

Benefits

- Space saving is possible
- Suitable for automotive applications
- High pulse current rating for motor drive stall conditions
- Available wide range of motor

End Products

- Wiper
- Oil Pump
- Water Pump

Application Diagram

Application Schematic Example

