

Single-channel, High-speed, Low-side Gate Driver

FEATURES

- Low-cost Gate Driver, Providing High-quality Alternative Products of NPN and PNP Discrete Resolution
- 4A Peak Source Current and Peak Sink Current Symmetrical Drive
- Low Propagation Delay: 13ns (TYP.)
- Fast Rising and Falling Time: 9ns and 7ns (TYP)
- TTL and CMOS Compatible Logic Threshold (Not Related to Power Supply)
- Dual Input Design (An Inverting (IN- Pin) or Non-inverting (IN+ Pin) Driver Configuration)
- Operating Temperature: -40°C to 125°C
- SOT23-5 Package

APPLICATIONS

- Switch-mode Power Supply
- DC-to-DC Converter
- Companion Gate Driver for Digital Power Supply Controller
- Solar Power, Motor Control, Uninterruptible Power Supply (UPS)
- Gate Driver with Wide Band-gap Power Device (Such as GaN)

PRODUCT DESCRIPTION

The MS30517S/MS30517SA is a single-channel, high-speed and low-side gate driver device, which can drive MOSFET and IGBT switch effectively. The chip is designed to reduce shoot-through current to a great extent. The MS30517S/MS30517SA can provide high peak source and sink current pulses, offering rail-to-rail driving capability and low propagation delay (13ns TYP.). The MS30517S/MS30517SA can withstand -5V input.

PRODUCT SPECIFICATION

Part Number	Package	Marking
MS30517S	SOT23-5	30517
*MS30517SA	SOT23-5	30517

*The package is not available temporarily.
If necessary, please contact Hangzhou Ruimeng Sales Department Center.

BLOCK DIAGRAM

