

DESCRIPTION

The SS6209 integrates the half-bridge MOSFET driver (high side + low side) into the package of SOP8. Compared to discrete component solutions, the SS6209 integrated solution greatly reduces the parasitic effects and board space issues of discrete solutions.

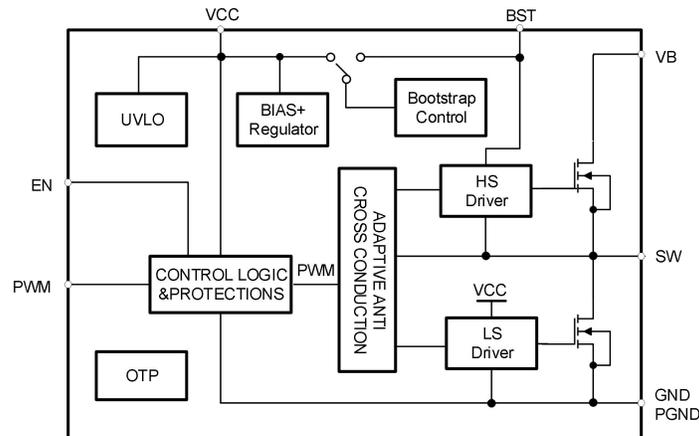
The drivers and MOSFETs have been optimized for half-bridge applications. The drive voltage of the high or low side MOSFET gate can operate over a wide voltage range and achieve optimal efficiency. The internal adaptive dead zone circuit further reduces switching losses by preventing both MOSFETs from being on at the same time.

When the VCC is below the specified threshold voltage, the UVLO circuit works, which can effectively prevent the chip from misoperating. The EN pin in the design allows the chip to enter a low static current state and obtain a long battery life.

APPLICATIONS

- E-cigarette
- Wireless charge
- Half-bridge application

FUNCTION CHART



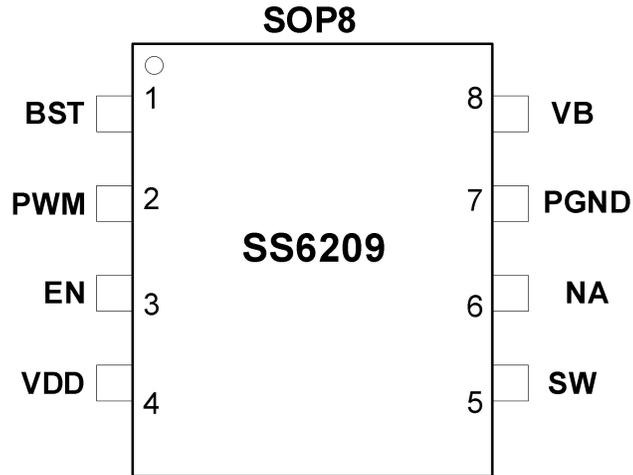
FEATURES

- Maximum rated continuous current 4A, peak 8A
- Bootstrap high-end drive
- Integrated high/low side MOSFETs
- High frequency operation (up to 1MHz)
- PWM input compatible with 3.3V and 5V
- Internal bootstrap diode
- Undervoltage lock
- Thermal protection is off
- Adaptive anti-collision protection

PRODUCT INFORMATION

Product number	Package type	Quantity
SS6209-SO-TP	SOP8	4000

PIN CONFIGURATION



PIN DESCRIPTION

Pin name	Description	Pin number
BST	Bootstrap voltage	1
PWM	PWM logic input	2
EN	Standby mode logic input pin	3
VDD	Logic and gate driver supply voltage	4
SW	Switch node output	5
NA	Empty foot	6
PGND	Power ground	7
VB	Power supply input pin	8