



## General Description

The OCP9200 SmartSwitch is a member of Orient-chip's Application Specific Power MOSFET product family. It is a Current Limited P-channel MOSFET power switch designed for high-side load-switching applications. This switch operates with inputs ranging from 2.7V to 5.5V, making it ideal for both 3V and 5V systems. An integrated current-limiting circuit protects the input supply against large currents which may cause the supply to fall out of regulation. The OCP9200 is also protected from thermal overload which limits power dissipation and junction temperatures. It can be used to control loads that require up to 1 A. Current limit threshold is programmed with a resistor from SET to ground. The quiescent supply current is typically a low 15  $\mu$ A max. In shutdown mode, the supply current decreases to less than 1  $\mu$ A.

The OCP9200 is available in a 5 pin SOT-23 specified over -40 to 85°C.

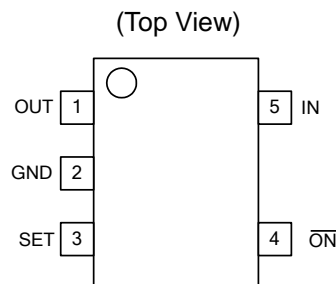
## Features

- 2.7V to 5.5V Input voltage range
- Programmable over current threshold
- Fast transient response:
- <1  $\mu$ s response to short circuit
- Low quiescent current
  - 15  $\mu$ A typical
  - 1  $\mu$ A max with Switch off
- 160m $\Omega$  typical RDS(ON)
- Only 2.5V needed for ON/OFF Control
- Undervoltage Lockout
- Thermal shutdown
- Temp range -40 to 85°C
- 4kV ESD Rating
- 5 pin SOT-23 package

## Applications

- Peripheral ports
- Notebook computers
- Personal communication devices
- Hot swap supplies

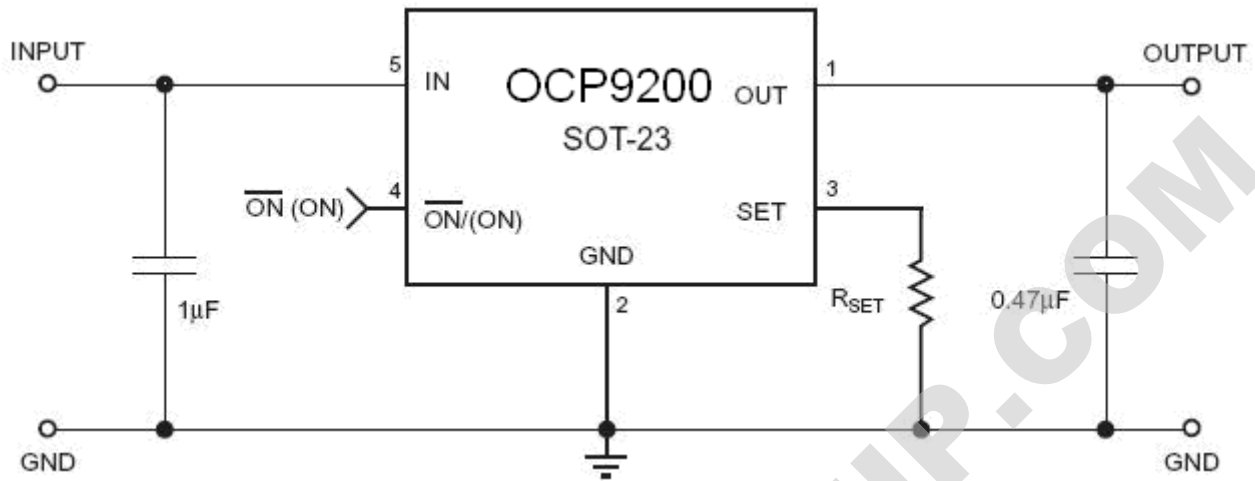
## Pin Configuration



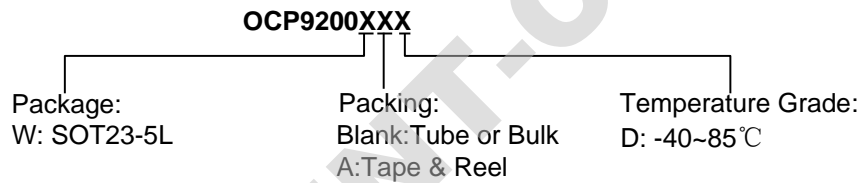
Pin Name.	Pin No	Pin Function
OUT	1	P-channel MOSFET drain. Connect 0.47 $\mu$ F capacitor from OUT to GND.
GND	2	Ground connection
SET	3	Current-Limit Set Input. A resistor from SET to ground sets the current limit for the switch.
$\overline{\text{ON}}$	4	Enable Input. Two versions are available, active-high and active-low. See ordering information for details.
IN	5	P-channel MOSFET source. Connect 1 $\mu$ F capacitor from IN to GND.



### Typical Application



### Ordering Information



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