

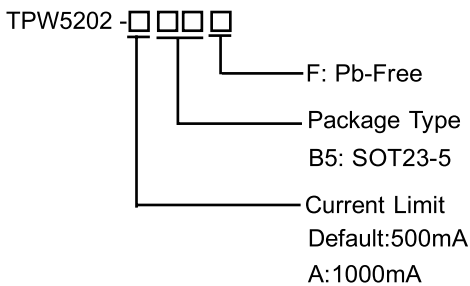
USB Power Loading Switch

DESCRIPTION

The TPW5202/A is an integrated 160mΩ power switch for self-powered and bus-powered Universal Serial Bus (USB) applications. A built-in charge pump is used to drive the N-Channel MOSFET that is free of parasitic body diode to eliminate any reversed current flow across the switch when it is powered off. Its low quiescent current (16μA) and small package (SOT-23-5) is particularly suitable in battery-powered portable equipment.

Several protection functions include soft start to limit inrush current during plug-in, current limiting at 500mA/1A to meet USB power requirement, and thermal shutdown to protect damage under over current conditions.

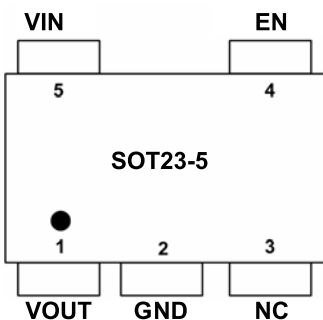
Order Information



Marking Information

For marking information, contact our sales representative directly or through a TPmicro distributor located in your area.

Pin Configurations



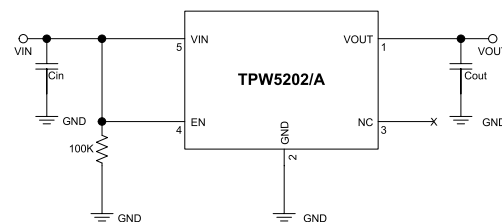
FEATURES

- 160mΩ Low Rdson, High-side NMOSFET
- Guaranteed 500mA/1000mA Continuous Current
- 2.5V to 7V Input Voltage
- Low Quiescent Current: 16μA
- Soft Start Function
- Built-In Short-Circuit Protection
- Built-in Thermal Protection
- RoHS Compliant and 100% Lead (Pb)-Free

APPLICATIONS

- Power Switch
- USB Device
- Battery Charger Circuits

Typical Application Circuit



Pin Description

SOT23-5	NAME	DESCRIPTION
1	VOUT	Output pin.
2	GND	Ground.
3	NC	No Connector.
4	EN	Device enable (active high).
5	VIN	Input pin.