

3A,30V,500KHz Step-Down Converter

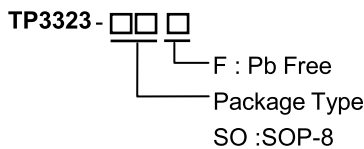
General Description

The TP3323 is current mode, step-down switching regulator capable of driving 3A continuous load with excellent line and load regulation. The TP3323 can operate with an input voltage range from 4.5V to 30V and the output can be externally set from 0.8V to 12V with a resistor divider.

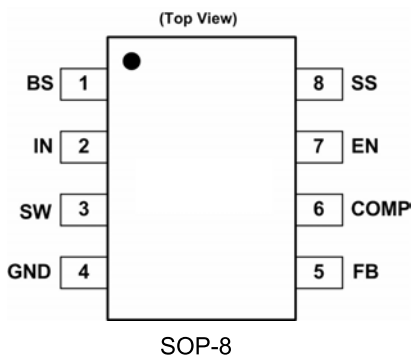
Fault condition protection includes cycle-by-cycle current limiting and thermal shutdown. In shutdown mode the regulator draws 1µA of supply current. Programmable soft-start minimizes the inrush supply current and the output overshoot at initial startup.

The TP3323 require a minimum number of external components.

Ordering Information



Pin Configurations



Features

- 35V Input Surge Protection
- 3A Output Current , peak Output 4A
- 0.135Ω Internal DMOS Output Switch
- 4.5V to 30V Input Operating Range
- Output Adjustable from 0.8V to 12V
- Up to 95% Efficiency
- 1µA Shutdown Current
- Fixed 500KHz Frequency
- Thermal Shutdown and Over Current Protection
- Input Supply Overvoltage and Under Voltage Lockout
- Available SOP-8 Package
- RoHS Compliant and 100% Lead(Pb)-Free

Applications

- PC Monitors
- Distributed Power Systems
- Networking Systems
- Portable Electronics

Marking Information

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