

6A,34V High Efficiency Synchronous Step-Down DC/DC Converter

Description

JT 560SCP is a high efficiency, monolithic synchronous step-down DC/DC converter utilizing a constant frequency, average current mode control architecture. Capable of delivering up to 6A continuous load with excellent line and load regulation. The device operates from an input voltage range of 7V to 32V and provides an adjustable output voltage from 1V to 25V.

JT 560SCP features short circuit and thermal protection circuits to increase system reliability. The internal soft-start avoids input inrush current during startup.

JT 560SCP require a minimum number of external components, and a wide array of protection features to enhance reliability

Features

- Wide VIN Range : 7V to 32V
- 6A Continuous Output Current
- Up to 95% Efficiency @ 24V Input
- Dual-Channel CC/CV Mode Control
- Brick Wall Current Limit
- Built in Adjustable Line-Compensation
- Adjustable Output Voltages
- +/-1.5% Output Voltage Accuracy
- +/- 5% Current Limit Accuracy.
- Integrated 8mΩ High Side Switch
- Integrated 8mΩ Low Side Switch
- Fixed 130KHz Frequency
- Burst Mode Operation at Light Load
- Internal loop Compensation
- Internal Soft Start
- Thermally Enhanced SOP8 Package

Applications

- Car Charger
- Rechargeable Portable Devices
- Networking Systems
- Distributed Power Svstems

Typical Application

