

Insulated Power Supply IC for Automotive Applications

SFA0006A

Description

The SFA0006A is an insulated flyback automotive power supply IC that uses PWM control. The IC can be used in power circuits connected to 12 V and 24 V batteries for various applications that require insulation.

By employing the primary-side regulation, the IC realizes low component counts and the downsizing the power supply circuit. The IC automatically switches the operation mode according to the load, realizing stable control.

Features

- AEC-Q100 Qualified
- Pb-free
- Current Mode Type PWM Control (60 kHz)
- Reducing External Component Count by Primary-side Regulation
- Constant Voltage (CV) and Constant Current (CC) Control
- Operation Modes:
Normal Operation: PWM Mode
Light Load Operation: Green Mode
Standby Operation: Burst Oscillation Mode
- Enable Function (IC operation stops when the EN Pin is Low Level)
- Protections:
Overcurrent Protection (OCP): Pulse-by-Pulse
Overload Protection (OLP): Auto-restart
Overvoltage Protection (OVP): Auto-restart
Thermal Shutdown (TSD): Auto-restart

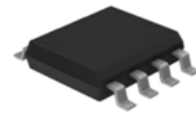
Applications

For following isolation auxiliary power supply:

- Inverter
- On-board Charger (OBC)
- Battery Management System (BMS)

Package

SOP8



Typical Application

