Part No. | SG5842JASZ | 🔍 | ⋮

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SG5842JASZ Datasheet (PDF) - Fairchild Semiconductor

Part No.	SG5842JASZ
Description	Highly Integrated Green-Mode PWM Controller
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Maker	FAIRCHILD [Fairchild Semiconductor]
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December 2009

SG5842A/SG5842JA — Highly Integrated Green-Mode PWM Controller

SG5842A/SG5842JA — Highly Integrated Green-Mode PWM Controller

Features

- Green-Mode PWM Controller
- Low Startup Current: 14µA
- Low Operating Current: 4mA
- Programmable PWM Frequency with Hopping (SG5842JA)
- Peak-Current-Mode Control
- Cycle-by-Cycle Current Limiting
- Synchronized Slope Compensation
- Leading-Edge Blanking (LEB)
- Constant Output Power Limit
- Totem-Pole Output with Soft Driving

Description

The highly integrated SG5842A/JA series of PWM controllers provides several features to enhance the performance of flyback converters. To minimize standby power consumption, a proprietary green-mode function provides off-time modulation to continuously decrease the switching frequency at light-load conditions. To avoid acoustic-noise problems, the minimum PWM frequency set above 22KHz. This green-mode function enables the power supply to meet international power conservation requirements. To further reduce power consumption, SG5842A/JA is manufactured using the BiCMOS process. This allows a low startup current, around 14µA, and an operating current of only 4mA. As a result, a large startup resistance can be used.

The SG5842A/JA built-in synchronized slope

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