

42V耐圧、低静止電流、2.2MHz動作、スペクトラム拡散

42V Withstand Voltage • Low Quiescent Current • 2.2MHz Operation • Spread Spectrum Function

NEW

ROHM
SEMICONDUCTOR

車載向けプライマリ降圧DC/DCコンバータ

Automotive Primary Buck DC/DC Converters

BD9Pxx5EFV-C / MUF-C series

Features

- 電源電圧変動に強くオーバーシュート対策用の追加コンデンサ不要

Strong against power supply voltage fluctuations
No additional capacitor to prevent overshoot

- 静止電流：10 μ A

広い負荷領域での高効率を実現

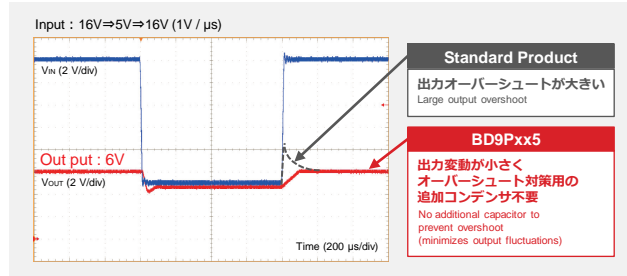
10 μ A quiescent current; achieves high efficiency over a wide load range

- スペクトラム拡散機能により低EMIを実現

Built-in spread spectrum function reduces EMI

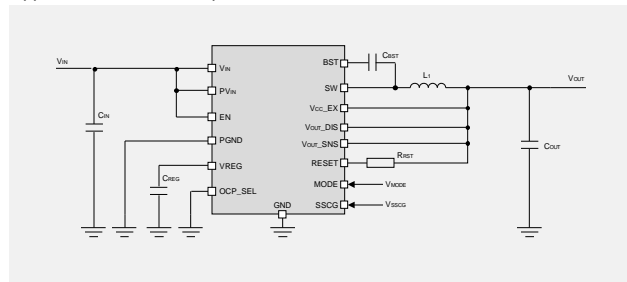
電源電圧の変動に強い

Strong Against Power Supply Fluctuations



アプリケーション回路例

Application Circuit Example



Applications

- 車載機器 (クラスター、カーインフォテインメントなど)

Automotive systems (Cluster, Car infotainment, etc.)

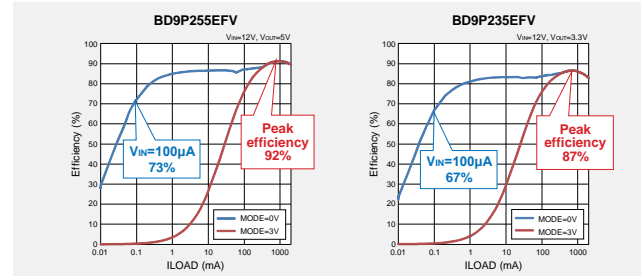
- その他電子機器

Other electric devices



軽負荷モードにより広い負荷範囲で高効率

Light Load Mode Ensures High Efficiency Over a Wide Load Range



ラインアップ

Lineup

Series	BD9Pxx05-C	BD9Pxx35-C	BD9Pxx55-C
FET	Nch / Nch	Nch / Nch	Nch / Nch
VIN	3.5V to 40V	3.5V to 40V	3.5V to 40V
Freq	2.2MHz	2.2MHz	2.2MHz
VOUT	0.8V to 8.5V	3.3V	5V
Output Current	1A New BD9P105EFV New BD9P105MUF	New BD9P135EFV New BD9P135MUF	New BD9P155EFV New BD9P155MUF
	2A New BD9P205EFV New BD9P205MUF	New BD9P235EFV New BD9P235MUF	New BD9P255EFV New BD9P255MUF
	3A ☆ BD9P305EFV ☆ BD9P305MUF	☆ BD9P335EFV ☆ BD9P335MUF	☆ BD9P355EFV ☆ BD9P355MUF

☆ : Under Development