

NEW

Automotive Primary Buck DC/DC Converters

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

BD9Pxx5EFV-C / MUF-C Series

APEC

Features

- Strong against power supply voltage fluctuations, requires no additional capacitor to prevent overshoot
- 10 μ A quiescent current; achieves high efficiency over a wide load range
- Built-in spread spectrum function reduces EMI

Applications

- Automotive systems (i.e. cluster, car infotainment)
- Electronic devices

DISCOVER THE **P**OWER

ROHM
SEMICONDUCTOR

NEW

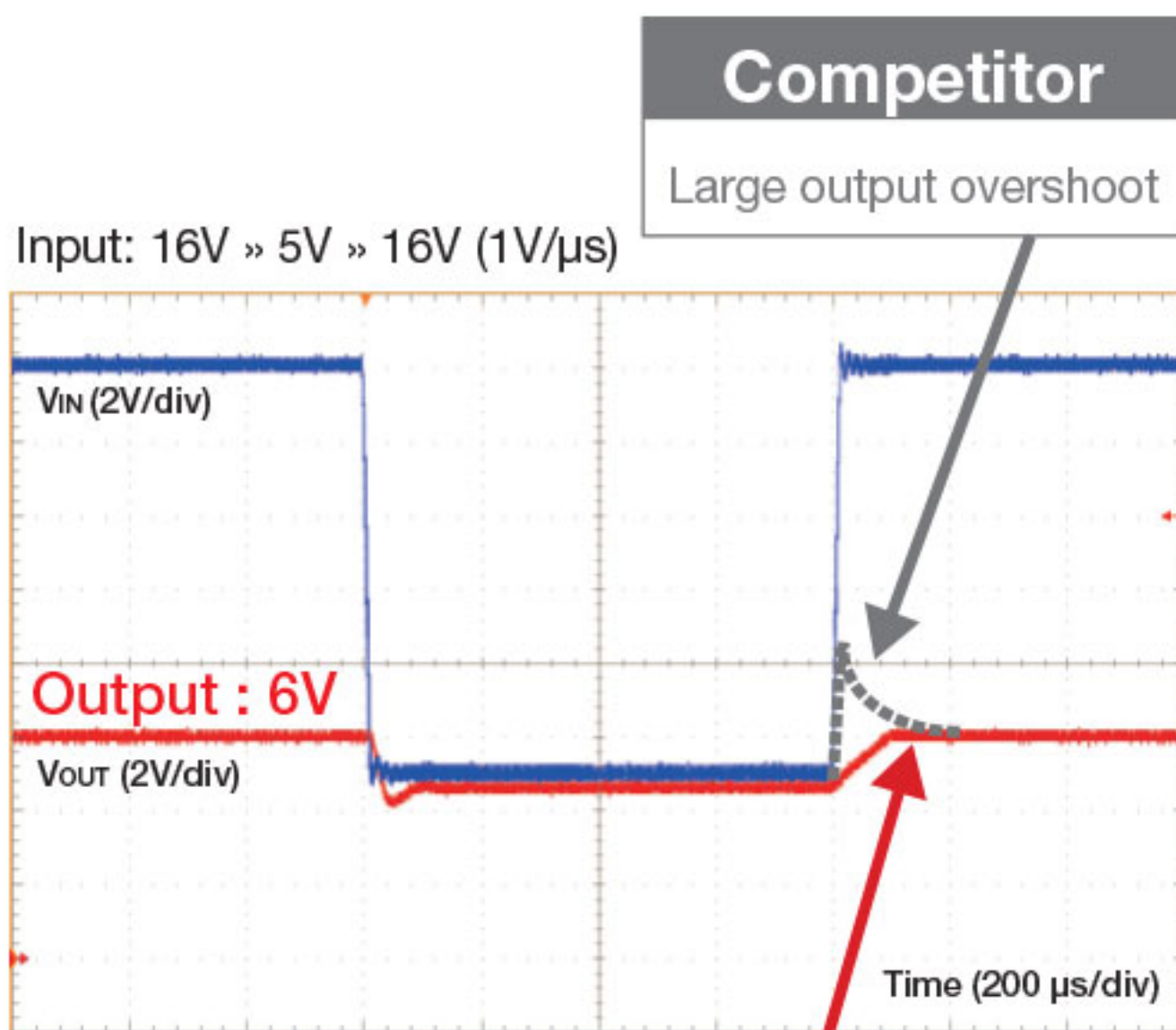
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Strong against power supply fluctuations



ROHM's BD9Pxx5

Requires no additional capacitor
to prevent overshoot
(minimizes output fluctuations)

NEW

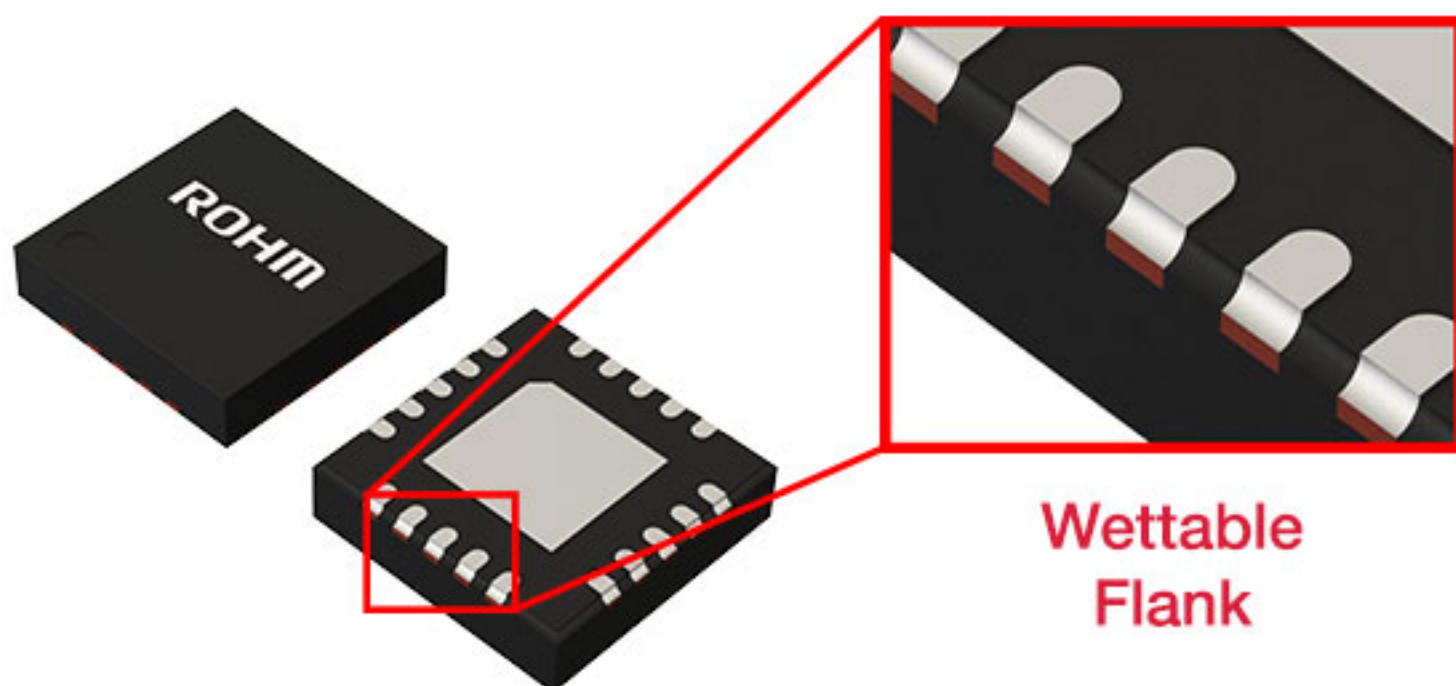
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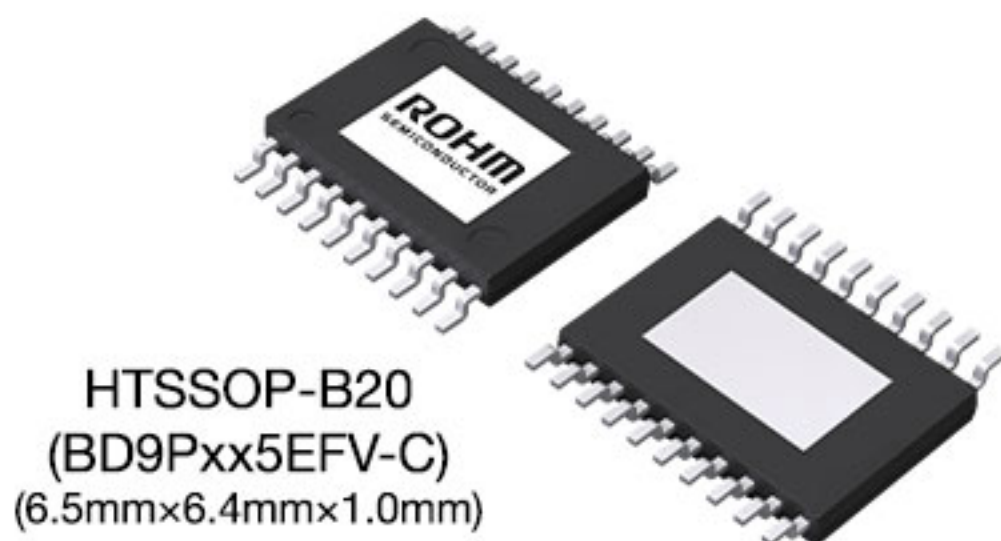
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Packages



VQFN20FV4040
(BD9Pxx5MUF-C)
(4.0mm×4.0mm×1.0mm)



HTSSOP-B20
(BD9Pxx5EFV-C)
(6.5mm×6.4mm×1.0mm)

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SEMICONDUCTOR

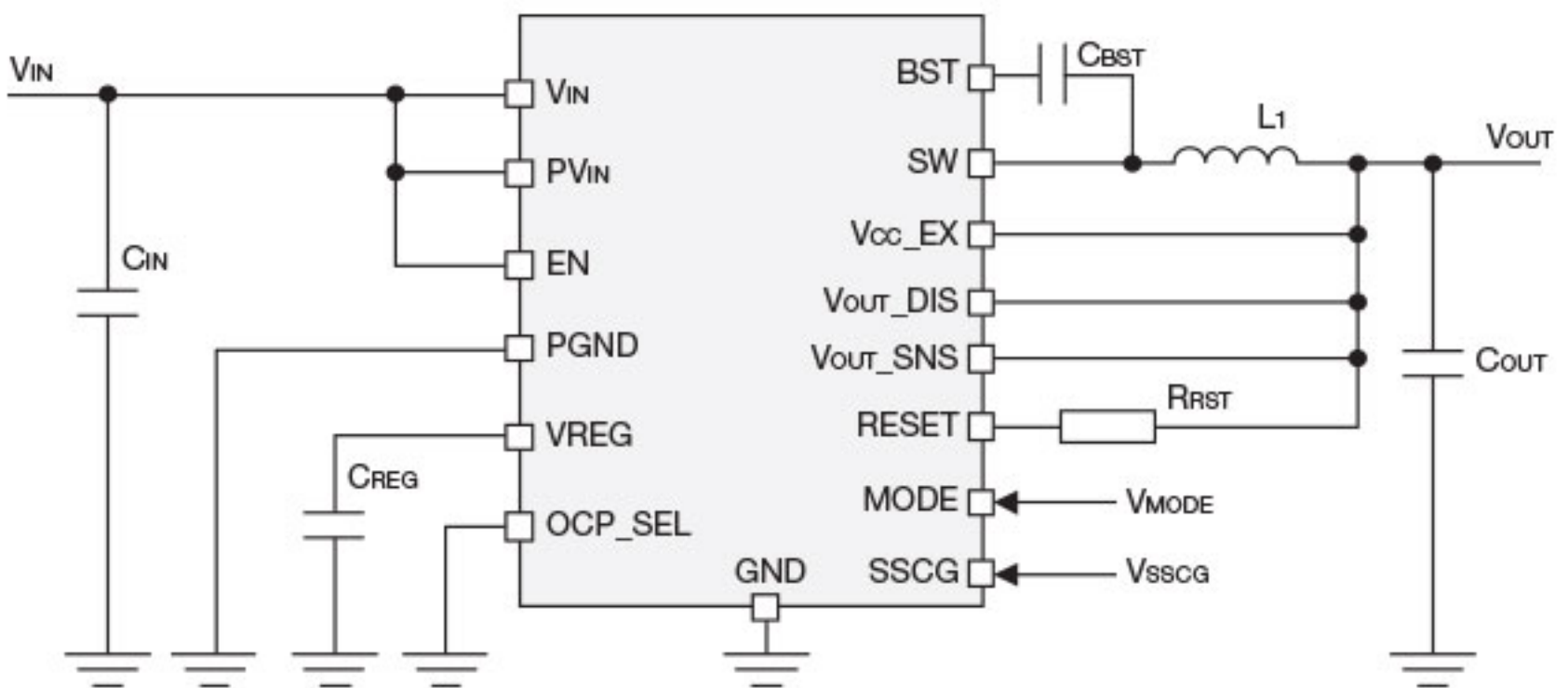
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Application circuit diagram



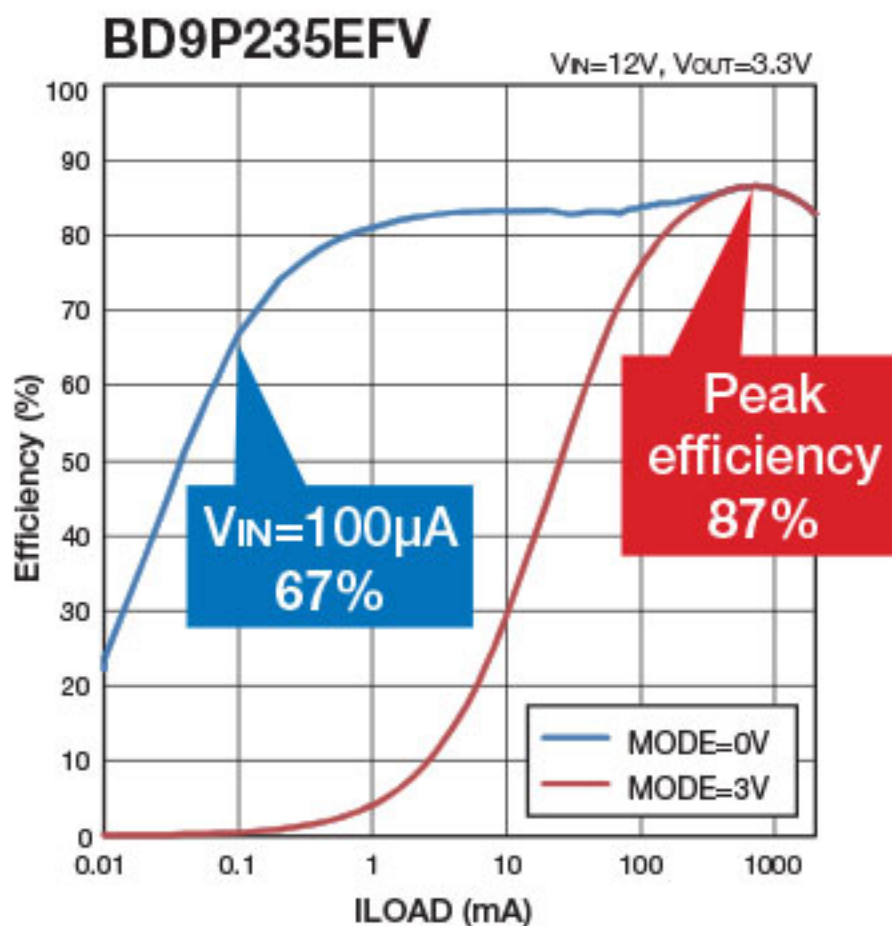
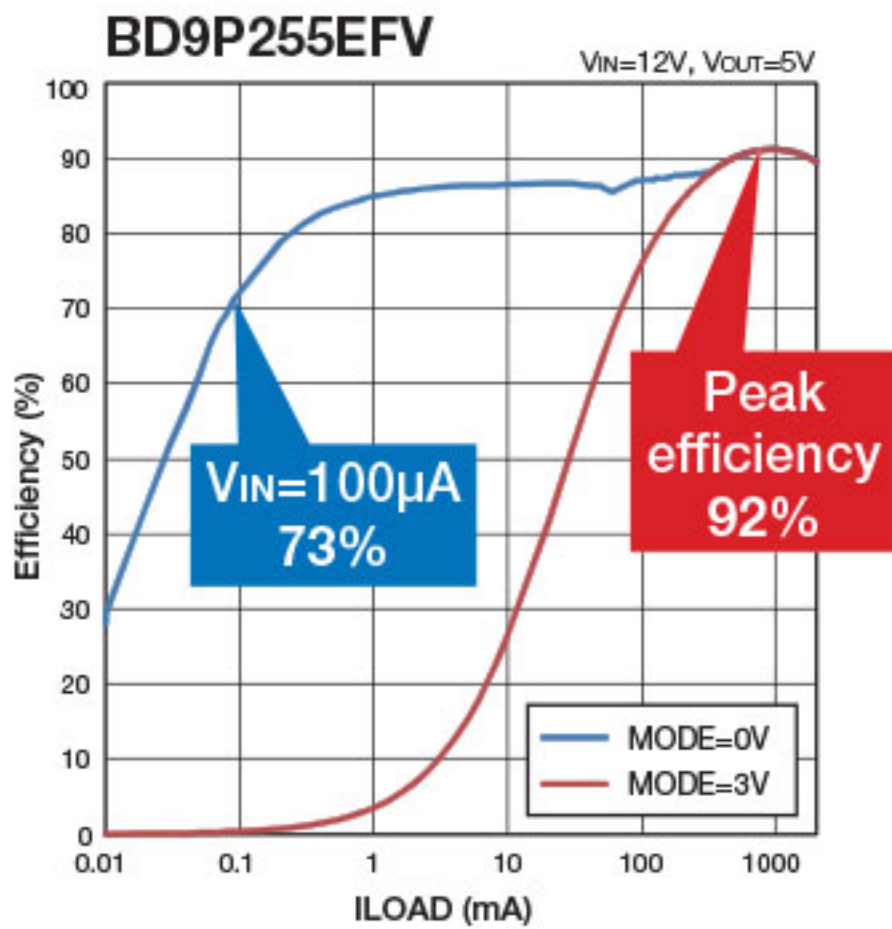
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Light load mode ensures high efficiency over a wide load range



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Lineup

Series	BD9Px05-C	BD9Px35-C	BD9Px55-C
FET	Nch / Nch	Nch / Nch	Nch / Nch
V _{IN}	3.5V to 40V	3.5V to 40V	3.5V to 40V
Freq	2.2MHz	2.2MHz	2.2MHz
V _{OUT}	0.8V to 8.5V	3.3V	5V
Output Current	1A	NEW BD9P105EFV NEW BD9P105MUF	NEW BD9P135EFV NEW BD9P135MUF
	2A	NEW BD9P205EFV NEW BD9P205MUF	NEW BD9P235EFV NEW BD9P235MUF
	3A	☆ BD9P305EFV ☆ BD9P305MUF	☆ BD9P335EFV ☆ BD9P335MUF

☆ : Under Development

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