

Bias supply DC-DC KIT_6W_12V_ICE5

Auxiliary supply solution featuring off-line
SMPS current mode controller IC with
800 V CoolMOS™ P7 SJ MOSFET

Description

KIT_6W_12V_ICE5



Ordering code:
KIT_6W_12V_ICE5

Board components

- › QR flyback PWM controller 5th generation ([ICE5QSAG](#))
- › 800 V CoolMOS™ P7 SJ MOSFET ([IPU80R4K5P7](#))

Board specifications

- › Input voltage: 90 V_{DC} - 400 V_{DC}
- › Output voltage: 12 V_{DC} (prim. and sec. side)
- › Output power max.: 6 W (prim. + sec. side)

To be used with the following boards

- › [EVAL_800W_ZVS_FB_CFD7](#)
- › [EVAL_2KW_ZVS_FB_CFD2](#)
- › [EVAL_2KW_ZVS_FB_CFD7](#)
- › [EVAL_2.5KW_CCM_4PIN](#)
- › [EVAL_2K5W_CCM_4P](#)

Product features

ICE5QSAG

Description:

- › Infineon latest 5th generation quasi-resonant flyback PWM controller offers high performance and comprehensive suite of protection to increase system robustness.

Summary of Features:

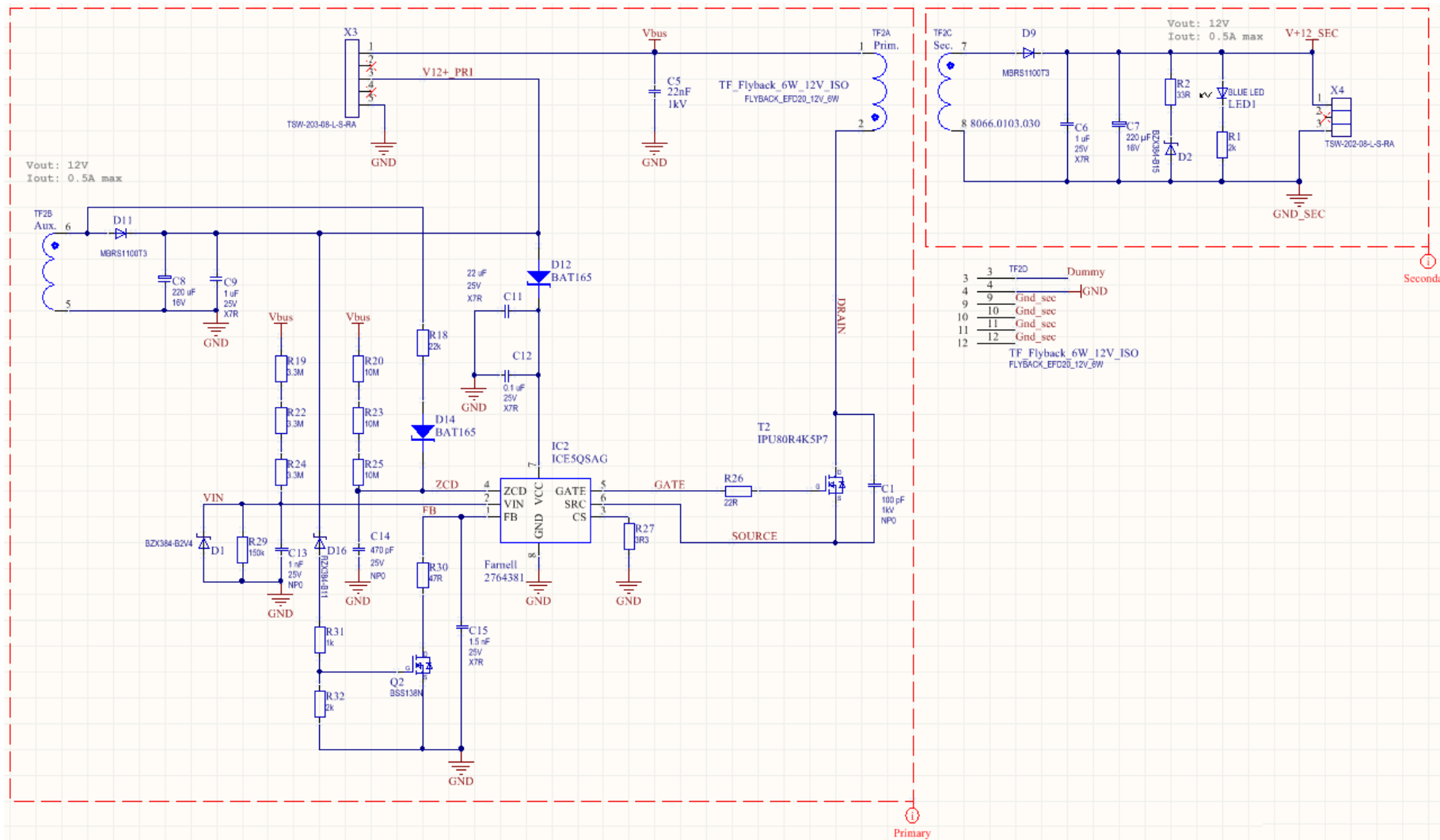
- › Novel quasi-resonant switching scheme
- › Rapid and adjustable start-up with cascode configuration
- › 2 level selectable active burst mode level
- › Built-in digital soft-start
- › Cycle by cycle peak current limitation
- › Digital frequency reduction with decreasing load for higher efficiency
- › Adjustable line input over-voltage and brown IN/OUT protection
- › V_{CC} and CS pin short to ground protection
- › OLP, output short, output over-voltage, OTP with hysteresis and V_{CC} over/under voltage protection
- › Auto-restart for all protection features



Benefits:

- › High efficiency with latest CoolMOS™ P7 SJ MOSFET family and quasi-resonant switching scheme
- › Auto-restart recovery scheme to minimize interruption to system operation
- › Extensive protection coverage to increase system robustness
- › Rapid start-up performance with cascode configuration

Schematic

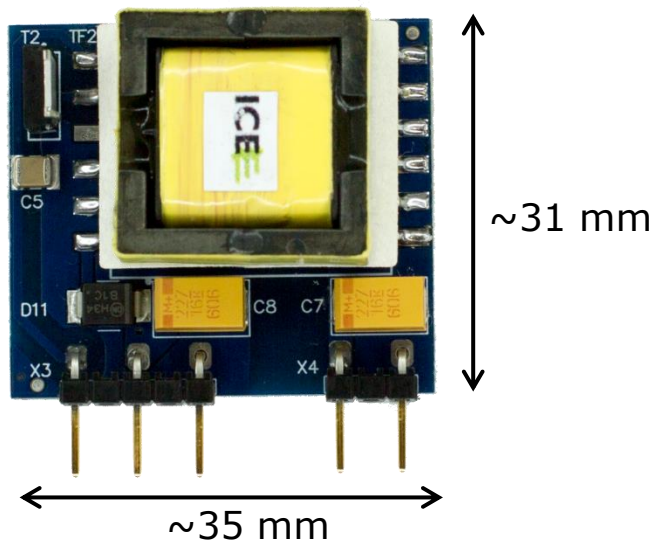


Base board KIT_6W_12V_ICE5



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Technical Material

- > Application Notes
- > Simulation Models
- > Datasheets
- > PCB Design Data

> [KIT 6W 12V ICE5](#)

Evaluation Boards

- > Evaluation Boards
- > Demoboards
- > Reference Designs

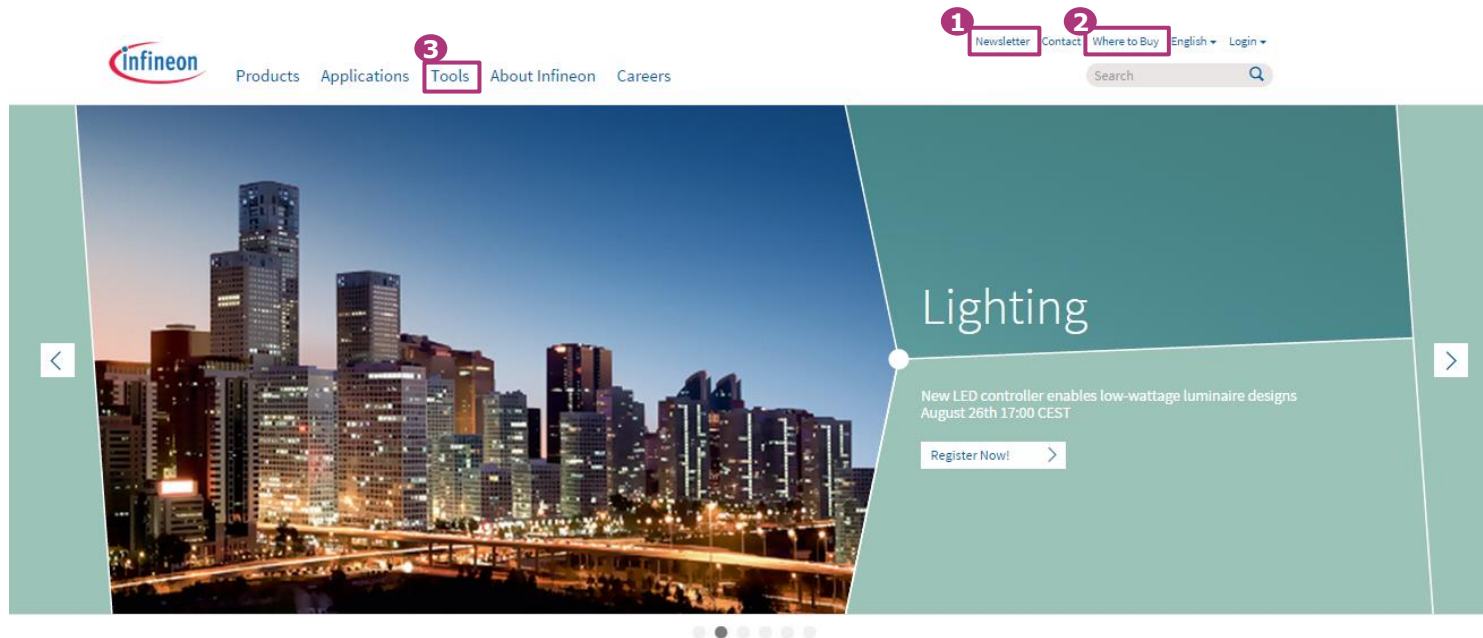
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