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 (<u>ICE5QSAG</u>)
- > 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

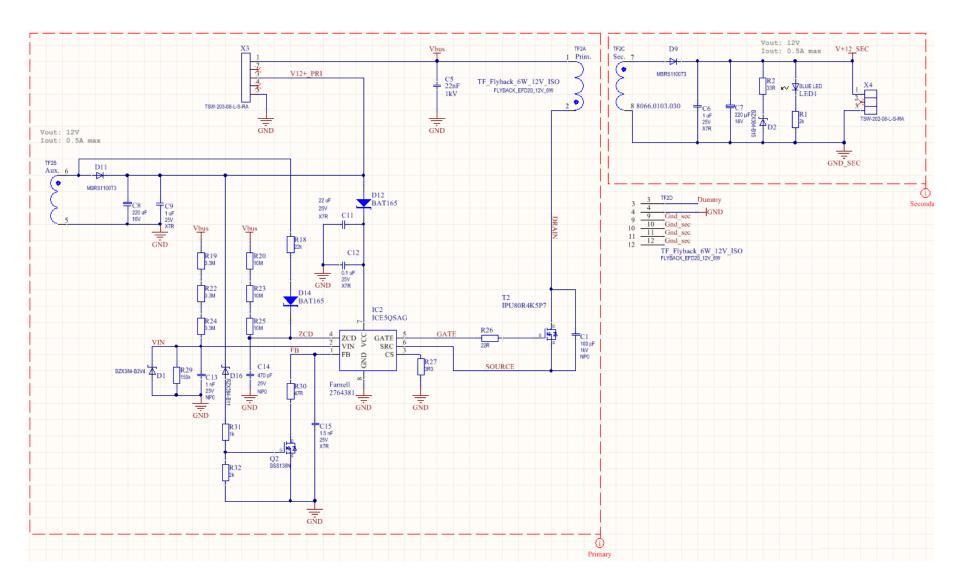
Benefits:

- 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



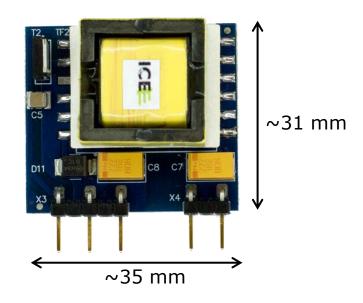
Base board KIT_6W_12V_ICE5





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Support





Technical Material

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

> KIT 6W 12V ICE5

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