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BTS70015-1ESP EVALBRD

Overview PROFET+2 12V BTS70015-1ESP EVALUATION BOARD

This Evaluation board comes with 1 high-side switch of BTS70015-1ESP. The purpose of this board is to provide a quick and easy solution for customers' lab evaluations. The Evaluation board is capable to drive resistive, capacitive and/or inductive loads.

Summary of Features

- High-Side Switch with Diagnosis and Embedded Protection
- Capacitive Load Switching mode
- Operating voltage range 3.1-28V with 3.3V and 5V compatible logic input
- **Protection**: current tripping, over-temperature, overvoltage, load dump, reverse polarity, short-circuit
- Diagnosis: load current sense output
- Optimized for design flexibility across the family by pin to pin and external components compatibility
- Miniaturization / Shrink of the PCB Area

Potential Applications

- for driving 27.6 A resistive, inductive and capacitive loads
- Replaces electromechanical relays, fuses and discrete circuits
- Suitable for driving glow plug, heating loads, DC motor and for power

Benefits

- 50% reduced internal operating current consumption
- Simplified & cost efficient ground network
- Current sense accuracy (kILIS) ≤ 8% @ nominal load current
- Benchmark cranking voltage capability able to work down to 3.1 V
- Smaller package size for area savings
- Very low output leakage current ($\leq 0.5 \ \mu A \ up$ to $85^{\circ}C$)









Parametrics

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Parametrics	BTS70015-1ESP EVALBRD
Board Type	Evaluation Board
Family	High Side Switch
Product Description	This Evaluation board comes with 1 high-side switch of BTS70015-1ESP. The purpose of this board is to provide a quick and easy solution for customers' lab evaluations. The Evaluation board is capable to drive resistive, capacitive and/or inductive loads.

Order		
Sales Product Name	BTS70015-1ESP EVALBRD	Cine
OPN	BTS700151ESPEVALBRDTOBO1	Start Chatbot
Produce Status	active and preferred	

Infineon Package name Sales Product Name	
Sales Product Name	BTS70015-1ESP EVALBRD
Standard Package name	
Order online	
Completely lead free	
Halogen free	
RoHS compliant	no
Packing Size	1
Packing Type	CONTAINER
Moisture Level	
Moisture Packing	NON DRY

Support

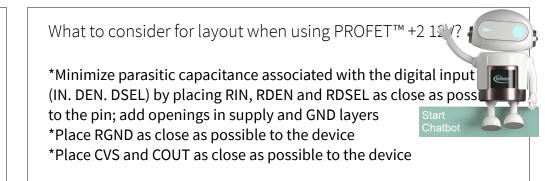
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PROFET™ +2 12V: Advantages of high-side switches compared to relays

*Reduced wire harness to optimize system cost and weight *Enhanced diagnostics, protection and EMC robustness

• • switching cycles can be achieved with a smart switch



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Why is the PROFET[™] +2 12V better than the PROFET[™] + 12V?

- *Power dissipation is drastically reduced by 50%
- *PCB area can be saved due to the integrated network
- *Smaller available package in the market
- *Best-in-class diagnosis and protection concept

Where can I find more FAQs on PROFET™ +2 12V?

Please refer to the FAQ note (https://www.infineon.com/dgdl/Infineon-Z8F65048819_PROFET_2_FAQ-ApplicationNotes-v01_20-EN.pdf? fileId=5546d462712ef9b7017187ba86301623)

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Infineon's partners offer products and services that complement our semiconductor device solutions to accelerate your development efforts and time to market. You can find them here: https://www.infineon.com/partnerfinder (https://www.infineon.com/partnerfinder).

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