

acquisition/)

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BTS70012-1ESP EVALBRD

Overview PROFET+2 12V BTS70012-1ESP EVALUATION BOARD

This Evaluation board comes with 1 high-side switch of BTS70012-1ESP. 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 31.3 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

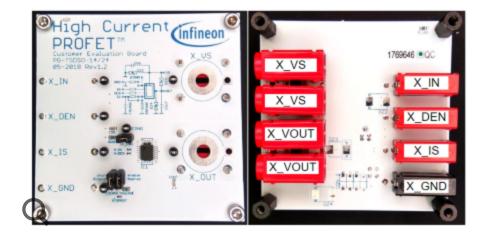
Benefits

- 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

l'alametres			
Parametrics	BTS70012-1ESP EVALBRD		
Board Type	Evaluation Board		
Family	High Side Switch		
Product Description	This Evaluation board comes with 1 high-side switch of BTS70012-1ESP. 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	BTS70012-1ESP EVALBRD	
OPN	BTS700121ESPEVALBRDTOBO1	Start Chatbot
Produce Status	active and preferred	

Infineon Package name Sales Product Name	
Sales Product Name	BTS70012-1ESP 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

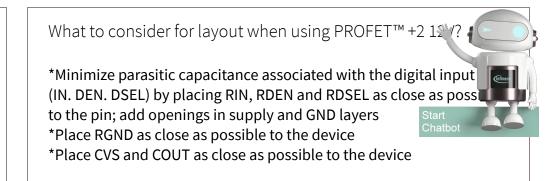
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Top 6 FAQs. Use the search bar above to show more!

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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In order to enable us to process your inquiry as efficiently as possible and ensure your case is duly reported, we kindly ask you to submit your request via the support form: https://www.infineon.com/tac (https://www.infineon.com/tac) Partner Finder for support, software, hardware, dev tools, services

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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