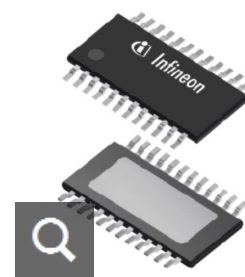


BTS70012-1ESP

The BTS70012-1ESP is a Smart High-Side Power Switch, providing protection functions and diagnosis. The product has a Capacitive Load Switching mode implemented to charge capacitive loads and to reduce current peaks during switch on of capacitors.



Summary of Features

Basic Features

- High-Side Switch with Diagnosis and Embedded Protection
- Part of PROFET™+2 12V Family
- Capacitive Load Switching mode
- ReverseON for low power dissipation in Reverse Polarity
- Switch ON capability while Inverse Current condition (InverseON)
- Green Product (RoHS compliant)

Protection Features

- Absolute and dynamic temperature limitation with controlled reactivation
- Overcurrent protection (tripping) with Intelligent Latch
- Undervoltage shutdown
- Overvoltage protection with external components

Diagnostic Features

- Proportional load current sense
- Open Load in ON and OFF state
- Short circuit to ground and battery

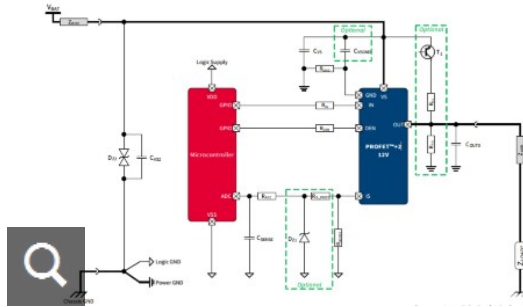
Product Validation

Qualified for automotive applications. Product validation according to AEC-Q100 Grade 1.

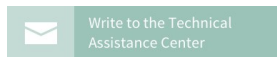
Potential Applications

- Suitable 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 distribution

Diagrams



Support



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