

## BTM 7700G Trilith IC



THE BTM 7700G is part of the Trilith IC family containing three dies in one package: One double high-side switch and two low-side switches. The drains of these three vertical DMOS chips are mounted on separated lead frames. The sources are connected to individual pins, so the BTM 7700G can be used in H-bridge- as well as in any other configuration. The double high-side switch is manufactured in SMART SIPMOS® technology which combines low  $R_{DSon}$  vertical DMOS power stages with CMOS circuitry for control, protection and diagnosis. To achieve low  $R_{DSon}$  and fast switching performance, the low-side switches are manufactured in S-FET logic level technology.

### Product Summary

Type	Package	Marking
BTM 7700G	PG-DSO-28-22	BTM 7700G

### Applications

- Door lock
- Fuel flap lock
- Mirror flap
- Steering wheel lock
- Headrest adjustment
- Various industry applications

### Features

- Quad D-MOS switch driver
- Free configurable as bridge or quad-switch
- Optimized for DC motor management applications
- Low  $R_{DSon}$   
High side: 110 mΩ typ. @ 25°C, 280 mΩ max. @ 150°C  
Low side: 80 mΩ typ. @ 25°C, 200 mΩ max. @ 150°C
- Peak current: typ. 9.5 A @ 25°C
- Very low quiescent current: typ. 5 μA @ 25°C
- Small outline, enhanced power PG-DSO-package
- Operates up to 40 V
- PWM frequencies up to 1 kHz
- Load and GND-short-circuit-protection
- Overtemperature shut down with hysteresis
- Undervoltage detection with hysteresis
- Status flag diagnosis
- Internal clamp diodes
- Isolated sources for external current sensing
- Green product (RoHS compliant)
- AEC qualified

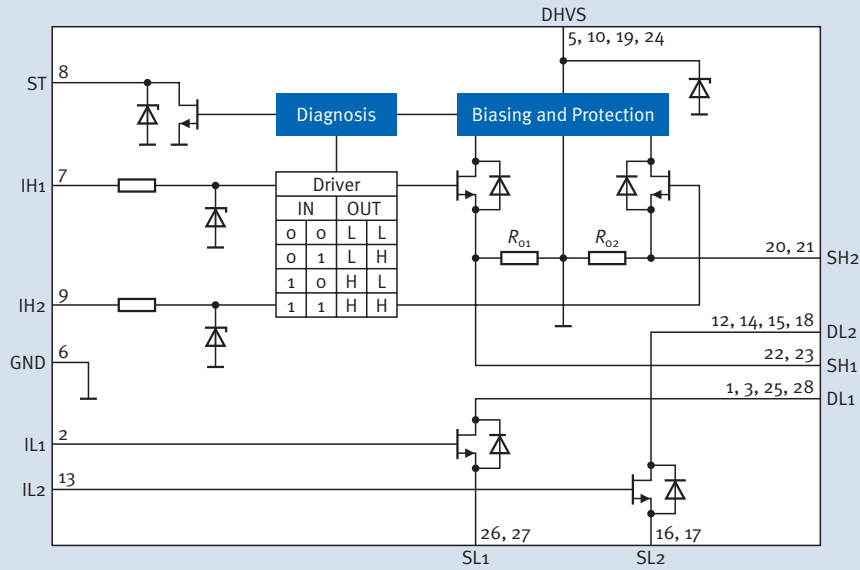
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## Automotive Power

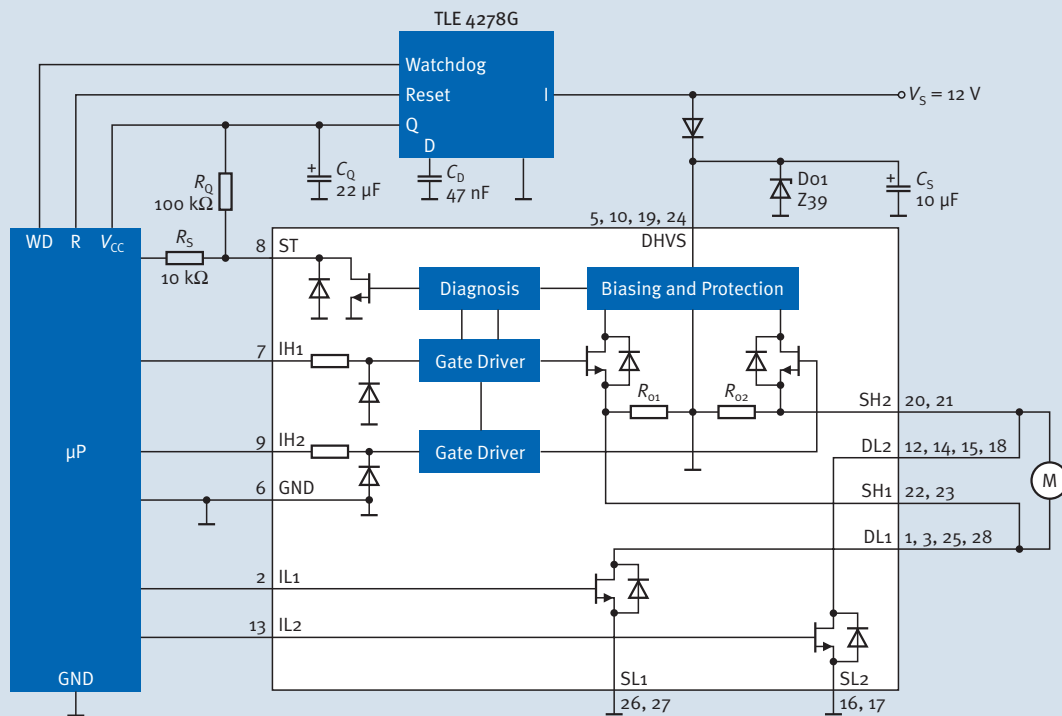


Never stop thinking

## Block Diagram



## Application Example



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