ASIL-D Safety Power Management IC for Safety Applications

FEATURES

Qualified for Automotive Applications
AEC-Q100 Qualified with the Following Results:
- Device Temperature Grade 1: -40°C to 125°C Ambient Operating Temperature Range

Wide Input Voltage Range:
- 3.0V-40V with pre-boost regulator
- 6.0V-40V without pre-boost regulator

Asynchronous Pre-Boost Controller VO_BST:
- Fixed Output Voltage of 7.5V
- Maximum Duty Cycle up to 95%
- Fixed 500kHz Switching Frequency

Synchronous Pre-Buck1 Converter VO_BUCK1:
- Fixed Output Voltage of 5.8V/5V/4V/3.3V
- Up to 1.8A Continuous Output Current
- Integrated 280mΩ High-Side and 90mΩ Low-Side Power MOSFETs
- Selectable 400kHz or 2.2MHz Switching Frequency

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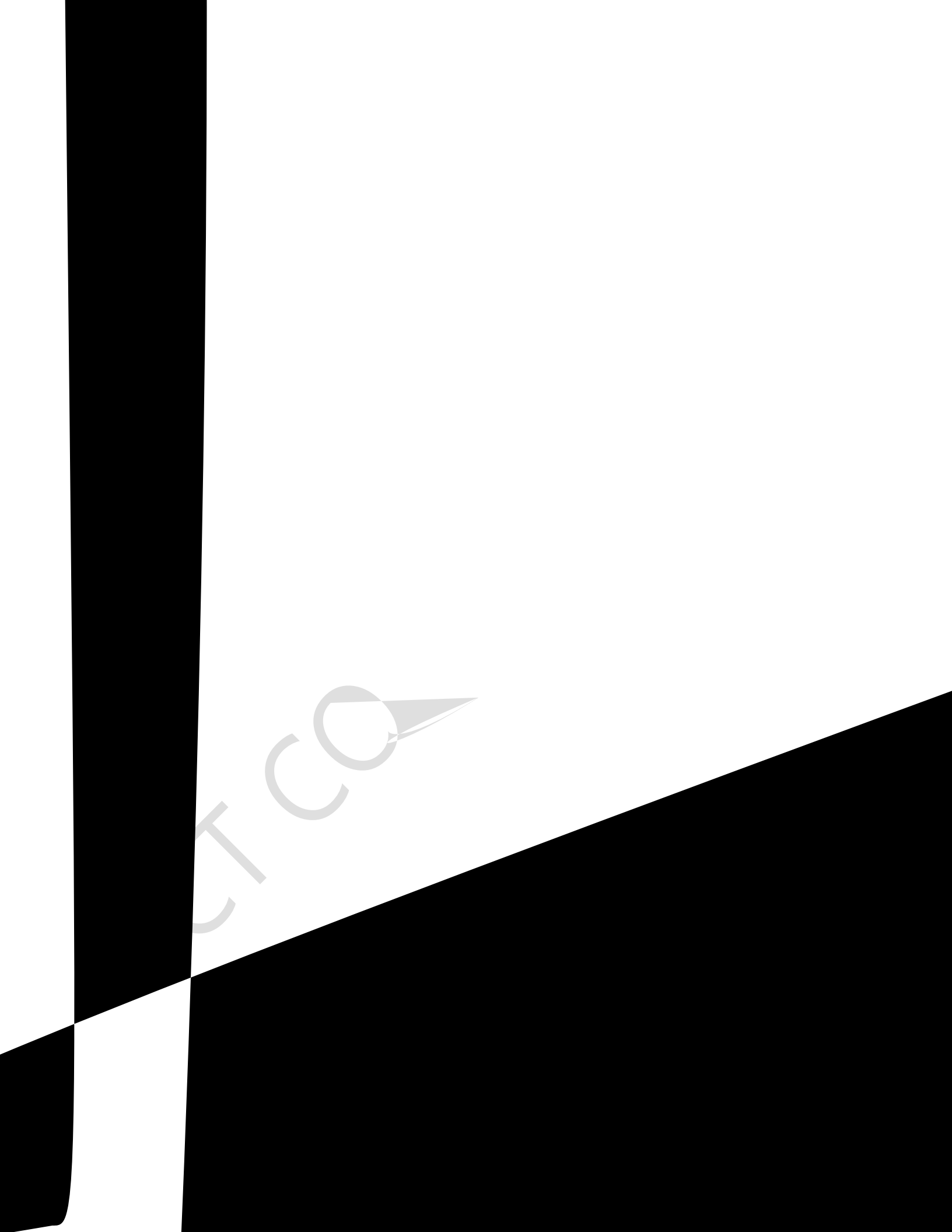

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