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
- LDO1 VO_

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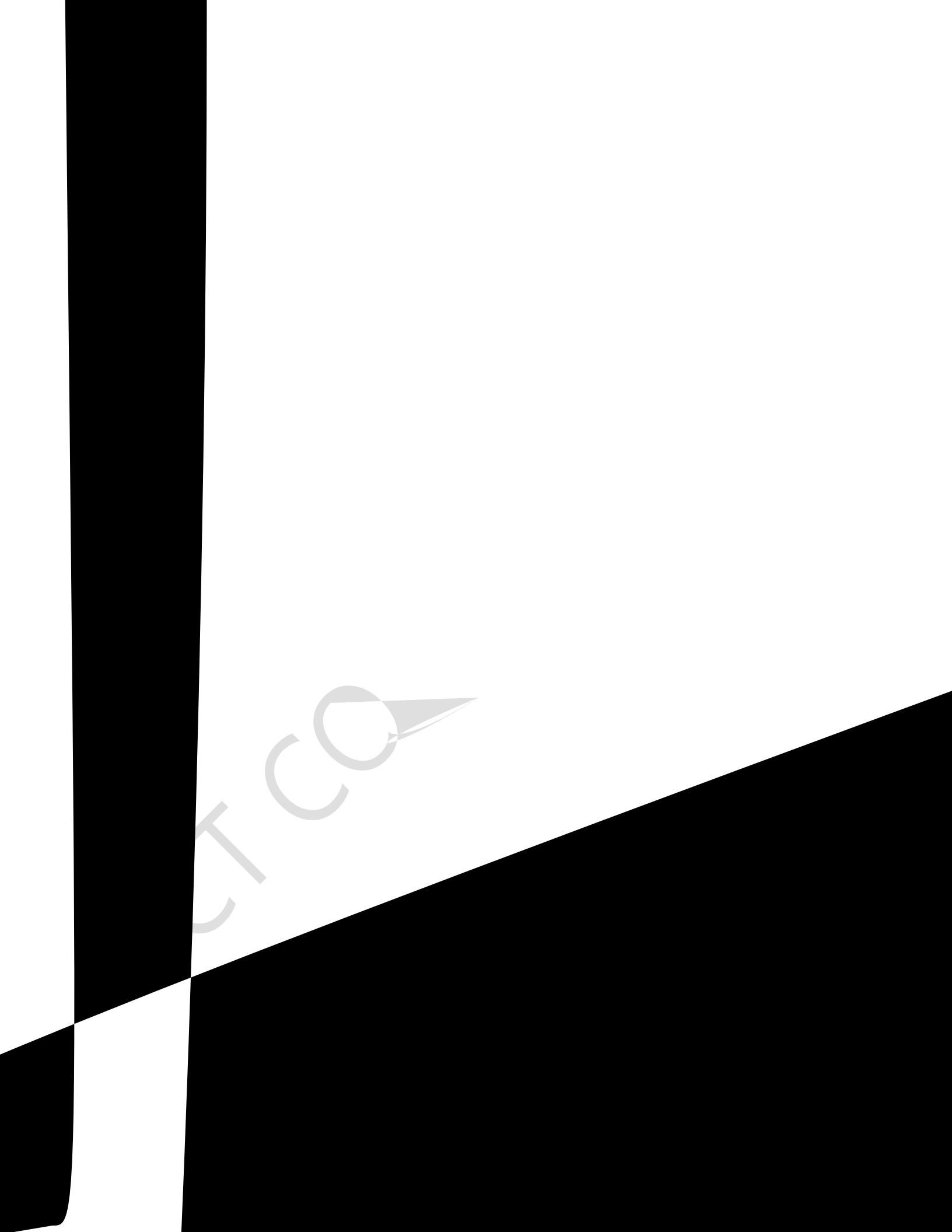

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