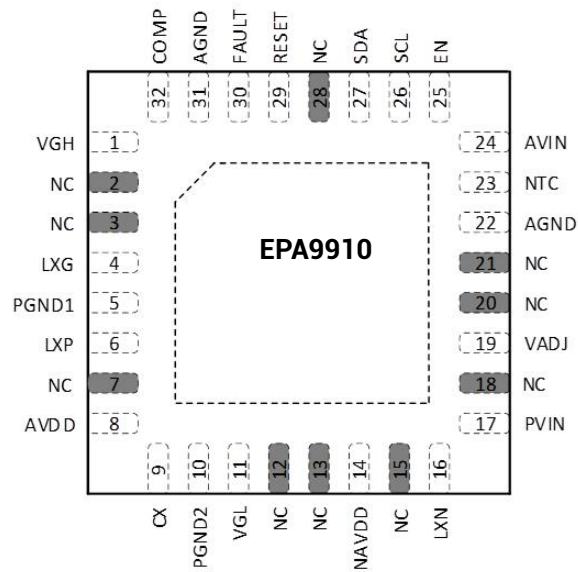


EPA9910 is an I²C interface programmable power management IC. The IC includes one synchronous boost converters for AVDD, one synchronous NAVDD buck-boost, one synchronous boost converter for VGH, one VGL charge pump, one high power LDO and one RESET voltage detector. With available in a WQFN-32L 5x5 package, this device is suitable for automotive TFT-LCD panel.

EPA9910 can operate from 2.7V to 5.5V input voltages. High switching frequency operation prevents the switching noise to interfere AM band. Current-limit functions are provided for all internal switch converters, and output-fault shutdown protects all converters against output-fault conditions, and output the FAULT signal to communicate with automotive computer.

Features

- Qualified for Automotive Applications
- AEC-Q100 Test Guidance with the Following Results:
 - Device Temperature Grade 1: -40°C to 125°C Ambient Operating Temperature Range fully I²C Programmable
 - Electrical Characteristics Tested Over -40°C to 150°C Junction Temperature Range
 - Device HBM: ±3KV
 - Device CDM: ±800V
- 2.7V to 5.5V Input-Voltage Range
- F_{sw}: 600KHz/800KHz/1MHz/2.2MHz
- High Integration
 - AVDD Programmable Output Voltage: 5V to 7.5V
 - AVDD Output Current up to 300mA
 - NAVDD Programmable Output Voltage: -5V to -7.5V
 - NAVDD Output Current up to 200mA
 - VGH Programmable Output Voltage: 7V to 30V
 - VGH Output Current up to 60mA
 - VGL Programmable Output Voltage: -6V to -18V
 - VGL Output Current up to 60mA
 - VADJ 4 bits Programmable LDO Output Voltage: 1.0V to 2.5V
 - VADJ Output Current up to 200mA
- Protection
 - UVLO, OCP, UVP, OVP, SCP Protection
 - Thermal Shutdown
- I²C Interface
- Power On/Off Sequence Free
- Output Power Off discharge function
- 5mm x 5mm QFN-32 Package



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