Product Overview

LV5694P: 5-Channel Linear Voltage Regulator with 2 High-Side Switches for Automotive Infotainment

For complete documentation, see the data sheet.

The LV5694P is a multiple output linear regulator IC, which allows reduction of quiescent current. The LV5694P is specifically designed to address automotive infotainment systems power supply requirements. The LV5694P integrates 5 linear regulator outputs, 2 high side power switches, overcurrent protection, overvoltage protection and thermal shutdown circuitry.

Features

- Low consumption current: 50μA (typ, only VDD output is in operation)
- 5 systems of regulator output
  VDD for microcontroller: output voltage: 5.0V/3.3V (always ON), maximum output current: 300mA
  For SWD5V: output voltage: 5V, maximum output current: 500mA
  For CD: output voltage: 7.6V/8.1V, maximum output current: 2000mA
  For illumination: output voltage: 9.0V, maximum output current: 500mA
  For audio: output voltage: 8.45V, maximum output current: 800mA
- 2 lines of high side switch with interlock VCC
  AMP: Maximum output current: 500mA, voltage difference between input and output: 0.5V
  ANT: Maximum output current: 350mA, voltage difference between input and output: 0.5V
- Overcurrent protector
- Overvoltage protector: Typ 36V (All outputs are turned off)
- Overheat protector: Typ 175°C
- Pch-LDMOS is used in power output block

Applications

- Automotive Audio and Infotainment System

End Products

- Automotive systems

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V_O (V)	I_O Typ (A)	V_I Min (V)	V_I Max (V)	V_{DO} Typ (V)	I_q Typ (mA)	PSRR (dB)	Noise (μV_{rms})	Enable	Power Good	Package Type
LV5694P-E	Pb-free	Active	Penta	Positive	9 8.45 3.3/5 7.6/8.1 5	0.5 0.8 0.3	7	16	-	0.05	50	-	Yes	No	HZIP-15J

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