

## Product Overview

### LV5680P: Linear Voltage Regulator, 4-Channel, with 2-High Side Switches, for Automotive Infotainment

For complete documentation, see the data sheet.

LV5680P is a multi-power supply system IC that provides four regulator outputs and four high side switches as well as a number of protection functions. Features include overcurrent protection, overvoltage protection and overheat protection. This is an optimal power supply IC for automotive audio, entertainment systems and similar products.

### Features

- Four independent voltage regulated outputs. Can supply:
  - Microcontroller
  - CD drive
  - Illumination
  - Audio system
- Two  $V_{CC}$ -linked high-side switches for antenna and external loads
- Two  $V_{DD}$  (5.0 V)-linked high-side switches for SW5V and accessory loads
- Integrated overcurrent protection
- Integrated overvoltage (21 V typ) protection
- Integrated thermal protection (175°C typ)

### 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 ( $\mu V_{rms}$ )	Enable	Power Good	Package Type
LV5680P-E	Pb-free	Active	Quad	Positive			7.5	16			50		Yes	No	HZIP-15J

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