

Product Overview

LV5684PVC: 5-Channel Linear Voltage Regulator with 2 High-Side Switches for Automotive Infotainment

For complete documentation, see the data sheet

The LV5684PVC is a power supply IC suitable for USB/CD receiver system for car audio system. This IC integrates 5 systems of regulator output, 2 systems of high side power switch, overcurrent protector, overvoltage protector and overheat protector. Supply for VDD and SW33V outputs is low voltage specification, which enables drastic reduction of power dissipation compared to the existing model. (the package is HZIP15J).

Features

- Low consumption current: 50 μ A (typ, only VDD output is in operation)
- 5 systems of regulator output :
Microcontroller
System
Audio
Illumination
CD
- 2 lines of high side switch with interlock VCC
- Overcurrent protector
- Overvoltage protector(OVP)
Overvoltage shutdown(OVS)
- Overheat protector: Typ 175°C

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSRR (dB)	Noise (μ V _{rms})	Package Type
LV5684PVC-XH	Pb-free	Active	Penta	Positive	5/8	0.35	16		0.05	50		HZIP-15J
	Halide free				5 to 12(Adj)	0.45						
					3.3	1.3						
					5 to 9(Adj)	0.3						
						0.25						

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