

产品概览

NCV7120: Hex Solenoid Current Controller with N-FET Predrivers

欲看完整文档,请参阅数据表。

The NCV7120 is a six-channel solenoid current controller with low side predrivers for discrete N-FETs. The chip can be used in accurate current controlled solenoid applications. Each predriver channel contains a programmable PWM current controller with dithering modulation. The NCV7120 is accessible via SPI.

For safety and protection, the chip is equipped with 3 high side predrivers. Two of these can be used to switch a common top predriver. One high side driver can be used for active reverse polarity protection. The NCV7120 has advanced diagnostic features and fault protection functions.

特性

- · Operating Supply Range from 6 V up to 26 V
- · 6-Channel Solenoid Current Measurement and Control
- · Average Current up to 1.2 A, Peak Current up to 1.65 A
- Accuracy ± 3mA to ± 6mA in Operating Range
- · On-chip Sense Resistors
- Low Side FET predriver ON, OFF or PWM (1 kHz ... 5 kHz)
- · Programmable Kp, Ki, Dither Amplitude and Frequency
- · Open- and Overcurrent Detection and Protection per Channel
- · AEC-Q100 Qualified and PPAP Capable
- Supporting ISO-26262 Documentation Available For more features, see the data sheet

应用

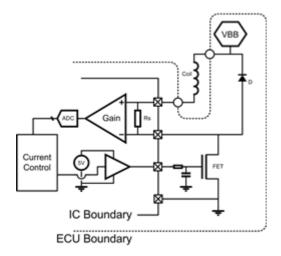
- · Automotive powertrain, body and chassis applications
- · Hydraulic Controls
- Pneumatic Controls
- · Accurate Current Controls
- · Proportional Valves

终端产品

- TCU or TCM Transmission Control Unit / Module
- · PCM Power Control Unit
- · ECU Engine Control Unit
- · Suspension Control Unit
- · Engine Management System

器件电气规格											
产品	Compliance	Status	Туре	Number of Drivers	V _{in} Max (V)	V _{CC} Max (V)	Drive Source/Si nk Typ (mA)	Rise Time (ns)	Fall Time (ns)	t _p Max (ns)	Package Type
NCV7120FP0R2G	AEC Qualified PPAP Capable Pb-free Halide free	NEW	MOSFET	6							TQFP-64 EP

应用框图



欲了解更多信息,请联系您当地的销售支援 www.onsemi.cn。

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