

製品概要

NCV4290: LDO Regulator, 450 mA, Low Dropout

技術情報は、データシートをご参照ください。

The NCV4290 is an integrated low dropout regulator designed for use in harsh automotive environments. It includes wide operating temperature and input voltage ranges. The output is regulated at 5 V and is rated to 450 mA of output current. It also provides a number of features, including overcurrent protection, overtemperature protection and a programmable microprocessor power good signal. The NCV4290 is available in the DPAK and D2PAK surface mount package. The output is stable over wide output capacitance and ESR range.

特長

- 5.0 V, 2% Output Voltage Accuracy with 450 mA Output Current
- 500 mV (max) Dropout Voltage
- Active Power Good Output Power Good Low Down to VQ = 1.0 V
- Fault Protection+45 V Peak Transient Voltage-42 V Reverse Voltage Short Circuit Protection Thermal Overload Protection
- AEC-Q100 Qualified
- These are Pb-Free Devices

利点

- Can operate with newest microprocessor.
- Can operate during cranking at low input voltage.
- Integrated control of microprocessor power supply - lower cost and space
- No external components required to enable protections required within any automotive applications.

アプリケーション

- Auto Body Electronics
- Engine Control Unit

最終製品

- Automotive

電気的仕様

製品	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
NCV4290DS50R4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.45	-42	45	0.25	0.17	60	-	No	Yes	DPAK-5
NCV4290DT50RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.45	-42	45	0.25	0.17	60	-	No	Yes	DPAK-5

詳細は、弊社 www.onsemi.jp の営業または販売代理店にお問い合わせください。

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