

产品概览

NCS214R: 电流感应放大器, 26V, 低压侧/高压侧电压输出, 双向电流分路监视器

欲看完整文档, 请参阅数据表。



NCS214R 和 NCV214R (AEC-Q100 认证) 是电压输出电流感应放大器, 可以在 -0.3 V 至 26 V 的共模电压下测量分路电压, 而无论电源电压如何。在固定增益为 100V/V 的情况下, 该零漂移结构的低偏移量使得电流感应分路中的最大下降低至 10 mV (满度量)。此类器件可基于一个 +2.2 V 至 +26 V 电源运行, 获取最大 80 μ A 的供应电流。采用 SC70-6 和 UQFN10 封装。其他可用增益选项有: NCS213R (50 V/V), NCS210R (200 V/V), NCS211R (500 V/V)

特性

- Wide Common Mode Input Range: -0.3 to 26V
- Low Offset Voltage: $\pm 100 \mu\text{V}$ max.
- Low Offset Drift: $0.5 \mu\text{V}/^\circ\text{C}$ max.
- Supply Voltage: 2.2 to 26 V

应用

- Power Monitoring
- Power Adapters
- LED Power Supply
- Over Current Protection
- Automotive

优势

- High-side current sensing for high voltage systems
- Low Ohm value current sense resistors
- High accuracy over temperature leading to better power efficiency
- Wide supply voltage range provides system flexibility

终端产品

- White Goods
- Automotive
- Lighting
- Laptop/Notebooks PC
- Fast Chargers in Smartphones and Tablets

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Channels	Gain (V/V)	Gain Error Max (%)	V _s Min (V)	V _s Max (V)	V _{CM} (V)	I _s Typ (mA)	Bandwidth Typ (-3dB)	V _{ps} Max (mV)	V _{os} Drift Max ($\mu\text{V}/^\circ\text{C}$)	Operating Temperature Range ($^\circ\text{C}$)	CMR R Typ (dB)	Package Type
NCS214RMUTAG	0.312	Pb-free Halide free non AEC-Q and PPAP	Active	1	100	± 1	2.2	26	-0.3 to 26	0.04	0.06	± 0.06	0.5	-40 to 125	125	UQFN-10
NCS214RSQT2G	0.296	Pb-free Halide free non AEC-Q and PPAP	Active	1	100	± 1	2.2	26	-0.3 to 26	0.04	0.06	± 0.06	0.5	-40 to 125	125	SC-88-6 / SC-70-6 / SOT-363-6
NCV214RSQT2G	0.388	AEC Qualified PPAP Capable Pb-free Halide free	Active	1	100	± 1.5	2.2	26	-0.3 to 26	0.04	0.06	± 0.09	1.5	-40 to 125	135	SC-88-6 / SC-70-6 / SOT-363-6

欲了解更多信息, 请联系您当地的销售支援 www.onsemi.cn。

创建于: 5/7/2021