

产品概览

NSI45020A: LED Driver, Constant Current Regulator, 20 mA, 45 V

欲看完整文档，请参阅数据表。

The linear constant current regulator is a simple, economical and robust device designed to provide a cost effective solution for regulating current in LEDs (similar to Constant Current Diode, CCD). The constant current regulator is based on Self-Biased Transistor (SBT) technology and regulates current over a wide voltage range. It is designed with a negative temperature coefficient to protect LEDs from thermal runaway at extreme voltages and currents. The constant current regulator turns on immediately and is at 25% of regulation with only 0.5 V V_{AK} . It requires no external components allowing it to be designed as a high or low side regulator. The high anode-cathode voltage rating withstands surges common in Automotive, Industrial and Commercial Signage applications. The constant current regulator comes in thermally robust packages and is qualified to AEC-Q101 standard, and UL94-V0 certified.

特性

- Robust Power Package: 460 mW, Wide operating voltage range, Immediate turn on Voltage surge suppressing protecting LEDs, UL94-V0 certified, SBT (Self Biased Transistor) Technology, Negative Temperature Coefficient, This device is PB-Free, Halogen Free/BFR Free and is RoHS Compliant
- NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable

优势

- High or Low side control, Simple Battery Charge, Reduce LED binning and therefore inventory, NO EMI

应用

- LED Drive, Battery Charging, Contact Wetting

终端产品

- Automotive - Cluster & Central Console Backlighting, Navigation/Audio Systems, Vanity Mirror Light, Car Door Puddle Light, Ambience Lighting, CHMSL, Turn Signals, Side Repeaters, Tail Lamps, Brake Lighting, Trailer lights & Contact Wetting. Display & Signage - Channel letters, Display backlighting, Neon bulb replacements, LED stripes & modules. Architectural lighting Decorative, Task, Exterior, Landscape & Under counter. Computing and Industrial Indicator lamps, Backlights

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	V_I Max (V)	I_O Max (mA)	LEDs in Series, Max #	LEDs in Parallel, Max #	Package Type
NSI45020AT1G	0.1173	Pb-free Halide free	Active	45	20	80	16	SOD-123
NSV45020AT1G	0.1291	AEC Qualified PPAP Capable Pb-free Halide free	Active	45	20	80	16	SOD-123

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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