



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





ANALOG HBLED

► Product Portfolio:

- Target commercial, residential, and automotive markets
- LED drivers can be used in a variety of topologies such as buck mode, boost-mode, flyback mode etc.

► General Features:

- DC/DC and AC/DC driver ICs
- Active power factor correction
- Non-Dimmable and Dimmable [Analog, PWM, Switch & Triac Dimming]
- Extended operating temperature range
- Compliant with worldwide EMI regulations; Energy Star

► Applications:

- General lighting
- Medical
- Automotive Lighting
- Interior

► Customer Benefits:

- Broad portfolio of products to address a range of general lighting applications
- Monolithic (integrated power MOSFET) and controller (external MOSFET) based solutions offer flexibility in design
- Robust built in protections for extended life operation

Product Selector Guide

Switching [AC/DC & DC/DC]

Part No.	Driver	VIN [V]	IOUT Accuracy	Effcy [%]	Power Transistor	Typical Applications	Package	Key Feature	Status
IS31LT3350	DC/DC Buck	6-40	750mA ±5%	95	Built-in	Low voltage LED lighting, MR16 replacement	SOT23-5, SOT89-5	Single pin ON/OFF or brightness control with DC/PWM, thermal shutdown	Prod
IS31LT3352	DC/DC Buck	6-40	750mA ±5%	95	Built-in	Low voltage LED lighting, MR16 replacement	SOP-8	Cascadable, temp. compensation and one pin ON/OFF/dimming control	Prod
IS31LT3353	DC/DC Buck	6-40	Iout: 1A +/-3%	95	Built-in	Low voltage LED lighting, MR16 replacement	SOT23-5, SOT89-5	Single pin ON/OFF or brightness control with DC/PWM, thermal shutdown	Prod
IS31LT3354	DC/DC Buck	6-40	< 2.5A ±5%	98	External	Low volt. LED lighting, Illuminated sign	SOT23-5	1200:1 dimming ratio LED driver with thermal shutdown protection	Prod
IS31LT3360*	DC/DC Buck	6-40	1.2A ±3%	98	Built-in	MR16, MR11 spot light, PAR light	SOT89-5	High efficiency with buck converter, with analog or PWM dimming	Prod
IS31LT3380	DC/DC Buck	8.5-40	1.2A ±5%	98	Built-in	MR16, MR11 spot light, PAR light	SOP-8	3-level switch dimming control, open/short and thermal shutdown protection	Prod
IS31LT3505	DC/DC Boost	6-30	24W ±5%	90	Built-in	Battery powered LED, solar light	MSOP-10	1MHz Boost Converter with 30V Internal NMOS	Prod
IS31LT3515	DC/DC	5-35	±3%	90	External	Industrial, street lighting	SOP-16	35V Buck/Boost, Buck/Boost operation	S=Q2/15
IS31LT3948	DC/DC Boost	5-100	-	90	External	Street lamp, LED lighting, Gen. illum.	SOP-8	Wide input voltage range, Boost, over-voltage/temperature protection	Prod
IS31LT3910	AC/DC	8-450 DC 110/220 AC	500mA ±7%	90	External	T8, PAR light	SOP-8	Non-isolation, linear/PWM dimming, temperature compensation	Prod
IS31LT3916	AC/DC	90-260 AC	PF > 0.9	85	External	T8, Bulb Replacement, PAR light	MSOP-8	Isolated and Non-Isolated; Offline LED Driver with Active PFC	Prod
IS31LT3953	DC/DC Buck	6-48V	-	-	Integrated	3A, PWM Dimmable Lighting	SOP-8EP	200kHz to 2Mhz DC/DC 3.0A dimmable buck regulator with robust protection features	S=Q2/15

*-40C to +125C: Extended temperature range option available

Switching (AC/DC & DC/DC)

Part No.	Driver	VIN [V]	IOUT Accuracy	Effcy [%]	Power Transistor	Typical Applications	Package	Key Feature	Status
IS31LT3918	DC/DC AC/DC	6-450 DC 85-265 AC	- ±3%	95	External	LED Lighting; Signal & decor. lighting, T8	SOP-8	High voltage LED driver with 3-level Switch Dimming	Prod
IS31LT3932	AC/DC	85-265 AC	PF > 0.95	>85	External	Retrofit Bulb, Tube, PAR Lighting	SOP-8	High Power factor, Low THD Universal Constant Current	Prod
IS31LT3933	AC/DC	85-305 AC	PF > 0.95	>85	External	Retrofit Bulb, Tube, PAR Lighting	SOP-8	High Power factor, Low THD Universal Constant Current	S=Q1/15
IS31LT3935	AC/DC	110/220 AC	PF > 0.95	87	External	Bulb Replacement, spot light, PAR light	DFN10 eTSSOP-16	25W Triac Dimmable Active PF Isolated and Non-Isolated	Prod
IS31LT3938	DC/DC, AC/DC	10-450 DC 85-265 AC	- ±3%	95	External	LED Lighting; Signal & decorative lighting	SOP-8	High voltage LED driver with Switch Dimming, Single External FET	Prod

Automotive Industrial

Part No.	Driver	VIN [V]	IOUT Accuracy	Power Transistor	Typical Applications	Package	Key Feature	Status
IS32BL3552	DC/DC Boost	4.5 - 33V	±1.5%	External	Automotive lighting, LCD display backlight	eTSSOP-16	Two channel LED current sinks, 40 to 360mA per string. String-to-string accuracy 1.5%	AECQ100 qualified
IS32BL3554	DC/DC Boost	4.5 - 33V	±1.5%	External	Automotive lighting, LCD display backlight	eTSSOP-16	Four 20 to 180mA channel current sinks. String-to-string accuracy 1.5%	AECQ100 qualified
IS32BL3556	DC/DC Boost	4.75 - 40V	±0.8%	External	Automotive lighting, LCD monitor backlight	eTSSOP-24	Four 100mA channel current sinks. String-to-string accuracy 0.8%	S=Q3/15
IS32LT3953	DC/DC Buck	6 - 48V	-	Integrated	Automotive lighting, dimmable cabin light	SOP-8EP	200kHz to 2Mhz DC/DC 3.0A dimmable buck regulator with robust protection features	S=Q2/15
IS32LT3120	Linear	5 - 45V	-	Integrated	Automotive cabin lighting, map & dome light	SOP-8EP	Two channel CCR with two debounced switch inputs, LED fade IN/OUT	Sample
IS32LT3170/1	Linear	2.8 - 42V	-	Integrated	Automotive lighting, emergency lighting, retail lighting	SOT23-6	Adjustable CCR 10 to 150mA, negative thermal coeff., low / high side, IS32LT3171 PWM dimming	S=Q2/15
IS32LT3172/3	Linear	2.8 - 42V	-	Integrated	Automotive cabin lighting, map & dome light	SOP-8EP	Adjustable CCR 10 to 200mA, negative thermal coeff., low / high side, IS32LT3173 PWM dimming	S=Q2/15
IS32LT3180	Linear	6 - 60V	±5.0%	Integrated	Automotive RCL, CHMSL, fog lamps, turn signal	eTSSOP-16	Eight channel, dual intensity, CCR with fault reporting, 10-75mA	Sample

Linear

Part No.	Driver	VIN [V]	IOUT Accuracy	Power Transistor	Typical Applications	Package	Key Feature	Status
IS31LT3135	Constant Current	2.7-5.5	500mA ±5%	Built-in	Miner lamp, Torch, Battery powered LED lighting	SOP-8	Main/sub dual-channel driver with short circuit and over temp. protection	Prod
IS31LT3117	Linear	6 - 53V	±5.0%	Integrated	Low-side CCR	eTSSOP-16	Four 350 mA channel current sinks. Support for external ballast transistor	Prod
IS31LT3170/1	Linear	2.8 - 42V	-	Integrated	Emergency lighting, retail lighting	SOT23-6	Adjustable CCR 10 to 150mA, negative thermal coeff., low / high side, IS31LT3171 PWM dimming	S=Q2/15
IS31LT3172/3	Linear	2.8 - 42V	-	Integrated	Emergency lighting, retail lighting	SOP-8EP	Adjustable CCR 10 to 200mA, negative thermal coeff., low / high side, IS31LT3173 PWM dimming	S=Q2/15