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LIGHTING - CONNECTIVITY - SENSOR - POWER - CONTROL - AUDIO/VIDEO

2023

Analog & Mixed Signal Solutions Automotive Product Selector Guide

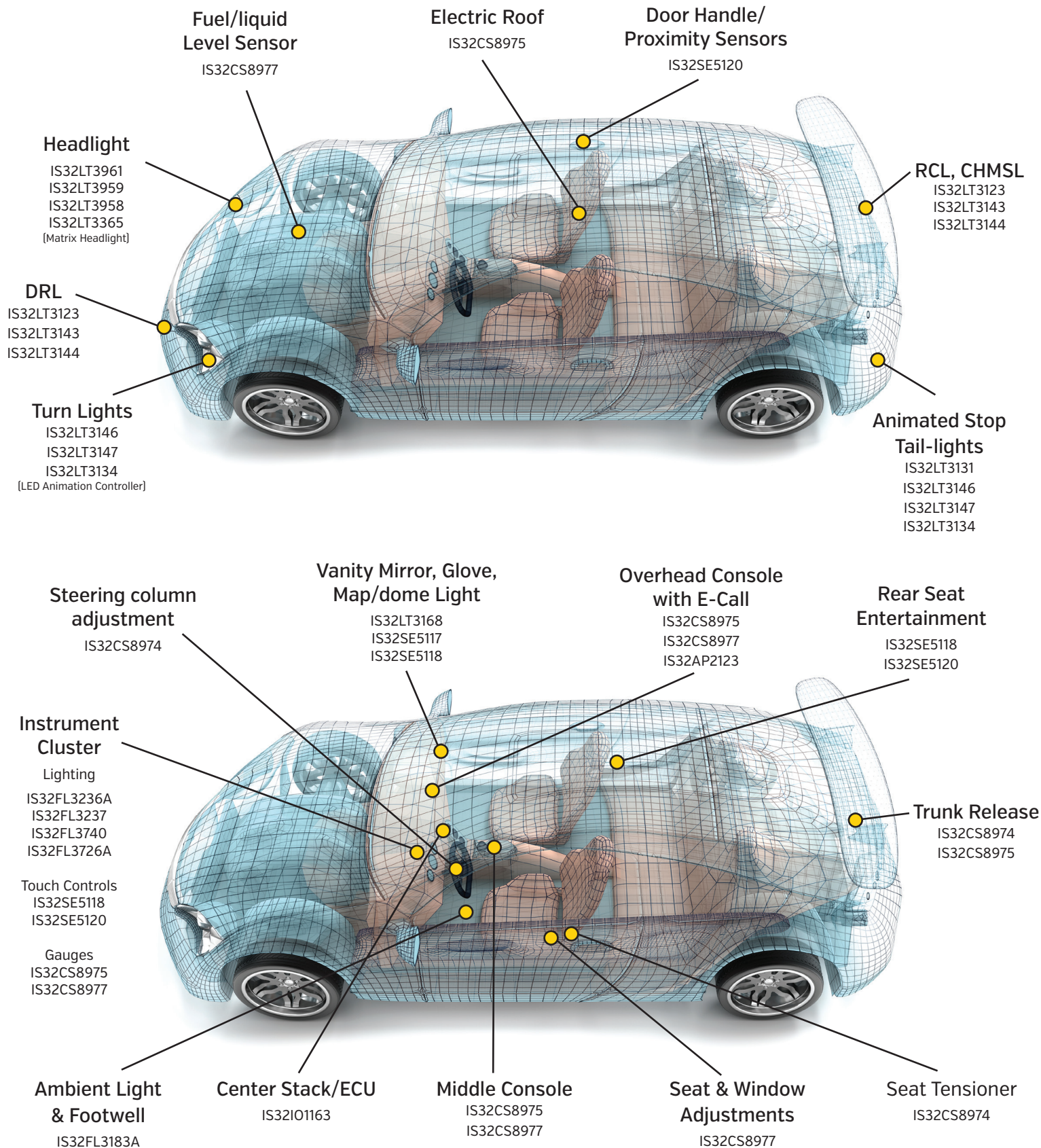
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Six Pillars of Growth



Applications



Automotive Analog

Automotive Amplifier

Part No.	Channel	Power [W]	THD+N	PSRR [dB]	VDD [V]	Package [Size in mm]	Key Feature	Status
IS32AP2123	1	24	0.05%	-70	4.5 ~ 24	eTSSOP-16	Class-D Mono BTL with 40V load dump and I2C diagnostics, automatic gain control [AGC], 85% efficiency, with dynamic temperature control and DC level protection	Prod

Automotive FxLED - Multi Channel

Part no.	Chan-nels	No. RGB Group	IOU max [mA]/CH	Control Interface	Operating Temp.	Pkg-Pin[mm]	Key Feature	Status
IS32FL3207	18	6 RGB	78	I2C-1MHz	-40°C to +125°C	WFQFN-28 [5x5]	16-bit PWM, Up to 62kHz selectable PWM frequency, Four selectable I2C addresses, 180 Degree phase shift with Spread spectrum, Noise Reduction, White Balance, open and short detect, ± 6% Accuracy	Prod
IS32FL3209	18	6 RGB	78	I2C-400kHz	-40°C to +125°C	WFQFN-28 [5x5] eTSSOP-28 [9.7x6.4]	Constant current channels with independent PWM control, selectable PWM frequency [29kHz/4kHz], 14 levels scaled output current/channel	Prod
IS32FL3236A	36	12 RGB	38	I2C-400kHz	-40°C to +125°C	eTQFP-48 [9x9]	8-bit PWM, selectable PWM frequency 3kHz/22kHz, 4 levels scaled output current/channel	Prod
IS32FL3237	36	12 RGB	38	I2C-1MHz	-40°C to +125°C	eTQFP48 [9x9]	Noise Reduction, Spread Spectrum, 16-bit PWM, 8-bit White Balance, open/short detect, pin compatible with IS31FL3236A	Prod
IS32FL3238	18	6 RGB	78	I2C-1MHz	-40°C to +125°C	eTSSOP-28 [9.7x6.4]	Noise Reduction, Spread Spectrum, 16-bit PWM and White Balance, open/short detect	Prod
IS32FL3240	30	10 RGB	38	I2C-1MHz	-40°C to +125°C	WFQFN-40 [6x6]	Noise Reduction, Spread Spectrum, 16-bit PWM, 8-bit White Balance, open/short detect	Prod
IS32FL3265A	18	6 RGB	60	I2C-1MHz	-40°C to +125°C	eTSSOP-28 [9.7x6.4]	High voltage tolerance, automatic address increment function with readout function, 5-bit [33 steps] Global current adjust, 8-bit Dot correction, 8-bit PWM, selectable PWM frequency[200Hz or 25KHz], Spread Spectrum, 8-bit Group Blinking with Programmable frequency[24-Hz to 10.66s]	Prod
IS32FL3265B	18	6 RGB	60	SPI-12MHz	-40°C to +125°C	eTSSOP-28 [9.7x6.4]	High voltage tolerance, automatic address increment function with readout function, 5-bit [33 steps] Global current adjust, 8-bit Dot correction, 8-bit PWM, selectable PWM frequency[200Hz or 25KHz], Spread Spectrum, 8-bit Group Blinking with Programmable frequency[24-HZ to 10.66s]	Prod
IS32FL3726A	16	5 RGB	60	Serial Shift - 30MHz	-40°C ~ +125°C	eTSSOP-24 [7.8x6.4]	3v-5.5v, Serial-in-parallel-out shift register with 16 curret sinks, ±5% accuracy	Prod

Automotive FxLED - Matrix

Part No.	Channel	No. RGB Group	IOU max [mA]/CH	Control Interface	Operating Temp.	Package [Size mm]	Key Feature	Status
IS32FL3746B	18xn [n=1~4] Matrix 72	24 RGB	34.5	SPI-12MHz	-40°C to +125°C	WFQFN-32 [5x5], eTQFP-32 [9x9]	29kHz PWM, 8-bit [PWM, Dot Correction, global current], individual open and short error detect function, VIO, De-Ghost, Spread Spectrum, EMI reduction, programmable matrix configuration [18xn]	Prod

Automotive Analog

Automotive FxLED - Smart LED

Part no.	Channel	No. RGB Group	IOUT max [mA]/CH	Control Interface	Operating Temp.	Pkg-Pin [mm]	Key Feature	Status
IS32LT3183A	4	1	60	LIN 2.2A	-40°C ~ +125°C	SOP-8-EP [5x6]	16-bit PWM, Color Calibration, LED aging animation patterns, SNPD [Bus Shunt Method], Temperature and ESD protection, ECC	Sample

Automotive HBLED - Linear

Part no.	Channel	Vdd[V]	IOUT Max [mA]/CH	Sink/ Source Dimming	Protection	Fault report	Pkg-Pin [mm]	Key Feature	Status
IS32LT3123	4	5 - 40	External FET	Sink Internal PWM	LED Open/Short, thermal rolloff, over temp	Yes	eTSSOP-24 [7.8x6.4]	Quad channel, programmable current linear controller capable of accurately regulating LED current with external MOSFETs	Prod
IS32LT3124	4	5 - 28	150	Source PWM & BCM	LED open/ Short, single LED short, ISET pin open/ short, over temp	Yes	eTSSOP-16 [5x6.4]	Quad Channel [independent PWM and current], Linear LED driver with fault reporting and dynamic headroom control	Prod
IS32LT3126	2	5 - 42	150	Source PWM & BCM	LED Open/ Short, single LED short, ISET pin open/ short, OUT short to VCC, over temp, thermal rolloff	Yes	eTSSOP-16 [5x6.4]	150mA Dual Channel LED Driver with fault reporting	Prod
IS32LT3128 IS32LT3128A	3	5 - 42	20 - 150	Source BCM PWM, Switch Priority	LED strings or ISET pin shorted to GND [no reporting], Over temp and thermal rolloff	Yes	eTSSOP-20 [6.5x6.4]	Triple channel LED driver with PWM dimming and switch fade IN/ OUT [higher priority than PWM IS32LT3128 only, lower priority than PWM IS32LT3128A only], Programmable [resistor]	Prod
IS32LT3129 IS32LT3129A	3	5 - 42	20 - 150	Source I2C, Switch Priority	LED strings short or open, ISET pin shorted to GND [no reporting], Over temp and thermal rolloff	Yes	eTSSOP-20 [6.5x6.4]	Triple channel LED driver with PWM dimming and switch fade IN/ OUT [switch higher priority than I2C--IS32LT3129 only, Switch lower priority than I2C--IS32LT3129A only], Programmable [I2C bus]	Prod
IS32LT3131	12	4.5~40	75	Source with individual 10 bit PWM and 8bit DC	LED string open/ short circuit, single LED short circuit, over current, over voltage, thermal roll-off, thermal shutdown, communication CRC error and so on.	Yes	WFQFN-32 [5x5] eTQFP32	UART interfaces support CAN PHY with up to 1MHz baud rate and fail-safe mode. 18 channels with individual 12bit PWM dimming and 7bit DC current adjustment. 63-steps global DC current setting. Thermal shunt topology optimizes the device thermal stress. Robust protections with fault reporting output.	Sample
IS32LT3138	18	4.5~16	100	Current Sink with individual 12 bit PWM and 7bit DC	LED string open/ short circuit, single LED short circuit, over current, over voltage, thermal roll-off, thermal shutdown, communication CRC error and so on.	Yes	WFQFN-32 [5x5] eTSSOP-28	UART/CANLITE interfaces support CAN PHY with up to 1MHz baud rate and fail-safe mode. 12 channels with individual 10bit PWM dimming and 8bit DC current adjustment. 32-steps global DC current setting. Thermal shunt topology optimizes the device thermal stress. Robust protections with fault reporting output.	Sample
IS32LT3140A IS32LT3140B	1	4.5~40	450	Source PWM	Programmable fault operation with single LED short detection [IS32LT3140A only], LED string open/ short, output over current, shared fault output for all-fail-all-fail system operation.	Yes	eTSSOP-14 [IS32LT3140A] SOP-8-EP [IS32LT3140B]	Single channel, linear programmable current regulator with low operating head room voltage and ±8% current accuracy over temperature range. Optional heat shunt resistor to optimize IC power dissipation. Programmable fault operation with single LED short detection [IS32LT3140A only] and shared fault output for one-fail-all-fail system operation.	Prod

Automotive Analog

Automotive HBLED - Linear (Contd)

Part no.	Channel	Vdd[V]	IOUT Max [mA]/CH	Sink/ Source Dimming	Protection	Fault report	Pkg-Pin [mm]	Key Feature	Status
IS32LT3141A IS32LT3141B	1	4.5~40	450	Source Onewire Series BUS	Onewire Serial BUS to control LED on/off, Shared fault flag for "one-fail-all-fail" function, Single LED short detection (IS32LT3141A only), LED string open/short, output over current	Yes	eTSSOP-14 (IS32LT3141A) SOP-8-EP (IS32LT3141B)	Single Channel, ±8% current accuracy over temperature range, Hi-side external resistor sets source current, Onewire Serial BUS to control LED on/off, Shared fault flag for "one-fail-all-fail" function, Single LED short detection (IS32LT3141A only)	Prod
IS32LT3143	3	5 - 40	10-150	Source, PWM	External resistors program single LED short detection level, LED string open/short, ISET resistor open/short, programmable thermal rolloff, Shared fault output for one-fail-all-fail system operation.	Yes	eTSSOP-16	Three channels, linear programmable current regulator with low operating head room voltage and ±3.5% current accuracy over temperature range. programmable junction over temperature thermal roll off. External resistors program single LED short detection and shared fault output for one-fail-all-fail system operation.	Sample
IS32LT3144	3	5 - 40	10-150	Source, PWM, analog dimming	External resistors program single LED short detection level, LED string open/short, ISET resistor short, over temperature thermal roll off, shared fault output for 'one-fail-all-fail' system operation	Yes	eTSSOP-16	Three channels, linear programmable current regulator with low operating head room voltage and ±3.5% current accuracy over temperature range. LED over temperature thermal roll off and device junction over temperature thermal roll off. External resistors program single LED short detection and shared fault output for one-fail-all-fail system operation.	Sample
IS32LT3146	6	5.0~40	75	Source State Machine	External resistors program single LED short detection level, LED string open/short, ISET resistor open/short, thermal rolloff, Open drain fault configurable for 'one-fail-all-fail' or 'one-fail-all-on' modes	Yes	eTSSOP-20 [6.5x6.4]	Six channel linear LED driver with programmable sequential turn on animation, External resistors program timing, sequence style, Cascade function for synchronizing multiple devices, Thermal shunt topology, Open drain fault configurable for 'one-fail-all-fail' or 'one-fail-all-on' modes	Prod
IS32LT3147	6	5.0~40	75	Source PWM	External resistors program single LED short detection level, LED string open/short, ISET resistor open/short, thermal rolloff, Open drain fault configurable for 'one-fail-all-fail' or 'one-fail-all-on' modes	Yes	eTSSOP-20[6.5x6.4]	Six channel linear LED driver with individual PWM dimming for each channel, External resistors program single LED short detection level and channel LED current, Thermal shunt topology, Open drain fault configurable for 'one-fail-all-fail' or 'one-fail-all-on' modes	Prod
IS32LT3168	1	6.5~36	200	Source Fade ON/OFF	Fault Protection: OUT pin shorted to GND, ISET pin shorted to GND, Over temperature thermal roll off, Thermal shutdown [TSD]	No	SOP-8-EP[4.9x6]	Single Channel, Configurable current from 20mA to 200mA, Ultra-low standby current (40µA), Omnipolar hall-effect switch sensor, ENB input pin for LED on/off with Gamma corrected fade in/out	Sample

Automotive Analog

Automotive HBLED - Linear (Contd)

Part no.	Channel	Vdd[V]	IOUT Max [mA]/CH	Sink/ Source Dimming	Protection	Fault report	Pkg-Pin [mm]	Key Feature	Status
IS32LT3175P IS32LT3175N	1	5 - 42	20 - 150	Source, +PWM/Fade ON/OFF -PWM/Fade ON/OFF	LED Short, ISET pin short, over temp, thermal rolloff	No	SOP-8-EP [4.9x6]	Single Channel, Linear LED Driver with fade in/fade out and BCM PWM Input	Prod
IS32LT3177 IS32LT3178	1	5 - 42	10 - 200	Sink, Power Supply PWM [3177] Digital PWM [3178]	Over current, over temp and thermal rolloff protection	No	SOT23-6 [2.9x2.8], SOP-8-EP [4.9x6]	Single channel low dropout, ±5% current accuracy. BCM input [IS32LT3177], 1kHz PWM input [IS32LT3178]	Prod

Automotive HBLED - Switching

Part no.	Topology	VIN [V]	IOUT [mA]	Dimming	Efficiency	Power Transistor	Pkg-Pin[mm]	Key Feature	Status
IS32LT3361	Buck	6.0~40	1300	PWM, Analog	up to 98%	Built-in	SOP-8-EP [5x6]	Continuous mode inductive step-down converter, ±5% output current accuracy over the operating temp., 1MHz switching frequency, dimming ratio can upto 2000:1 at 100Hz PWM dimming, Robust protection and Fault reporting and sharing, LED string open/short detect, AEC-Q100	Prod
IS32LT3951	Buck	4.5 - 38	1500	PWM	95%	Built-in	SOP-8-EP [5x6]	1.5-Ampere PWM dimmable constantcurrent buck LED driver with output fault report/protect, 2uA shutdown, spread spectrum	Prod
IS32LT3952	Buck	4.5 - 38	1500	PWM	95%	Built-in	SOP-8-EP [5x6]	1.5-Ampere PWM dimmable constantcurrent buck LED driver with robust protection, spread spectrum	Prod
IS32LT3953B	Buck	4.5 - 38	3000	PWM	95%	Built-in	SOP-8-EP [5x6]	3A PWM dimmable constant-current buck LED driver with robust protection, spread spectrum, Prog UVLO, 2µA shutdown current, LED string open/short detect, No fault reporting, AEC-Q100, 5V linear regulator output (VDD) to bias an external circuit	Prod
IS32LT3954 IS32LT3954A	Buck	4.5 - 38	3000	PWM	95%	Built-in	SOP-8-EP [5x6]	3-Ampere PWM dimmable constant current buck LED driver with spread spectrum, robust protection and reporting, fault sharing for 3954A only	Prod
IS32LT3957A	Buck, boost, buck-boost, SEPIC	5 - 75	External FET	PWM, Analog	93%	External	eTSSOP-16 [5x6.4]	High voltage LED lighting driver, Fixed UVLO, Spread spectrum, External clock sync, Fault report, Over voltage protection, LED String short detect, AEC-Q100, Analog dimming down to 10%	Prod
IS32LT3958	Buck, boost, buck-boost, SEPIC	5 - 70	External FET	PWM, Analog, internal PWM	93%	External	eTSSOP-20	PWM dimming, two analog dimming inputs, LED binning with over-temp current rolloff, program UVLO, +/-2.8% current accuracy, adjust operating freq range, program soft start, EMI reduction via spread spectrum and freq sync with ext. clock, robust fault reporting, AEC-Q100	Prod
IS32LT3959	Buck, Boost and Buck-boost configuration with LED string cathode refers to GND	4.5 - 55	Up to 50W	Internal PWM, external PWM, analog	94%	External	eTSSOP-28	Support Buck, boost and buck-boost with LED string to GND, programmable internal PWM generator, supper low shutdown current, spread spectrum and robust fault protection.	Prod

Automotive Analog

Automotive HBLED - Switching (Contd)

Part no.	Topology	VIN [V]	IOUT [mA]	Dimming	Efficiency	Power Transistor	Pkg-Pin[mm]	Key Feature	Status
IS32LT3961	Buck	5.0~60	2000	PWM Analog Bypass MOSFET shunt	–	Built-in	eTSSOP-16 [5x6.4]	High-side current sense with LED string cathode connected directly to GND, Cycle-by-cycle current limit, Spread spectrum, Output current monitor, Open drain fault signal output, Single LED short detect, LED over temperature thermal roll off, Thermal shutdown	Prod
IS32LT3965	Sync Buck	3.8~38	1500	PWM, Analog	Up to 97%	Integrated	WFCQFN-14 [3mmX4mm]	1.5A sync buck LED driver with up to 2.2MHz forced CCM operation, analog dimming, spread spectrum, programmable UVLO, 1uA shutdown current and robust protections with fault reporting output.	Sample

Automotive HBLED - LED Controller

Part no.	Channels	Animation	IOUT [mA]	Comm Interface	Pkg-Pin[mm]	Status
IS32LT3134	12-channel common anode/cathode/multiplexed drive	4patterns x 12Kb, 0.1sec-15sec animation, Global/ local dimming, programmable clock prescaler	Total 100mA sink/source, External FET drive option	19.2K UART, Dynamic addressing mode	WQFN-24 [4x4]	Prod

Automotive Power Management

Part no.	Topology	VIN [V]	VOOUT[V]	IOUT [mA]	Efficiency	Pkg-Pin[mm]	Key Feature	Status
IS32PM3510	Boost, buck-boost	4.5 - 55	1.2 - 55	Ext. MOS	Up to 94%	HTSSOP-28	Non-sync boost or buck-boost with high efficiency, spread spectrum and robust fault protections.	Prod

Automotive Sensor

Part no.	Sensor Type	VIN [V]	No. Channels	Pkg-Pin[mm]	Key Feature	Status
IS32SE5117	Capacitive Touch	2.7 - 5.5	16 Cap Touch input through shared GPIO, differential dual slope charge sharing	WQFN-24 [4x4]	E-Flash for code storage has built-in ECC, SRAM storage has built-in ECC, water resistant, proximity sensor, melody generator	Prod
IS32SE5118	Capacitive Touch	2.7 - 5.5	8 Cap Touch input through shared GPIO, differential dual slope charge sharing	TSSOP-16 [6.4x5]	E-Flash for code storage has built-in ECC, SRAM storage has built-in ECC, water resistant, proximity sensor, melody generator	Prod
IS32SE5120	Capacitive Touch	2.7-5.5	24 Cap Touch input through shared GPIO, Differential dual slope charge transfer	WQFN-32 [5x5]	E-Flash for code storage has built-in ECC, SRAM storage has built-in ECC, water resistant, active proximity sensor, melody generator	Prod

Automotive Analog

Automotive MCU

Part no.	Flash Memory	RAM	ADC	PWM [PCA]	DAC	Timer/Counter	Communication	Package	Status
IS32CS8974	32KB [ECC]	2KB [ECC]	-	8-bit PWMx6 /w one channel Timer/Capture controller, Trigger interrupt, Output polarity	-	16-bit x5, 24-bit x1, 30-bit WDTx1, 16-bit WDTx2	Master/Slave I2C, UART/ EUART/LIN Controller, SPI	TSSOP-24, WQFN-24	Prod
IS32CS8975	16KB [ECC]	1KB [ECC]	11-bit SAR ADCx4-channel	8/10/12-bit PWMx6 /w one channel Timer/Capture controller, Trigger interrupt and ADC Conversion, Output polarity	8-bit DAC x1	16-bit x5, 24-bit x1, 30-bit WDTx1, 16-bit WDTx2	Master/Slave I2C, UART/ EUART/LIN Controller, SPI	TSSOP-16, SOP-8	Prod
IS32CS8977	64KB [ECC]	2KB [ECC]	12-bit SAR ADC /w GPIO analog input	8/10/12-bit center-aligned PWMx6, 8-bit left/right-aligned PWMx16	8-bit DAC x1	16-bit x5, 24-bit x1, 30-bit WDTx1, 16-bit WDTx2, 16-bit Timer/Capturex1, 16-bit quadrature decoderx1	Master/Slave I2C, UART/ EUART/LIN Controller, SPI, 28 GPIO	TSSOP-20/24/28, WQFN-32, LQFP-32	Prod

Automotive IN Vehicle Network

Part no.	Type	Description	Wire interfaces	Interfaces	Grade	Pkg-Pin[mm]	Status
CG5316B0-A2NE3	In vehicle network	G.vn Transceiver for in vehicle networking	G.vn	G/MII, SPI	AEC Q-100 grade 2	aQFN80 [8x8]	Prod

Automotive HomePlug Green PHY (HPGP)

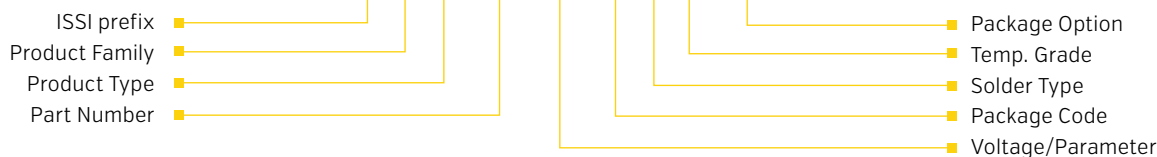
Part no.	Type	Description	Wire interfaces	Interfaces	Grade	Pkg-Pin[mm]	Status
IS32CG5317	HomePlug Green PHY [HPGP]	Powerline communication for EV and charging station	PLC	SPI, R/MII	AEC-Q100 Grade 2	EP-LQFP	Mass production [Industrial version] by Q4 2022

Automotive Multi-Function I/O's

Part No.	Data Rate	VBAT[V]	IBAT	Ctrl. Interface	I/O Port	Pkg-Pin[mm]	Status
IS32IO1028	up to 20Kbps	5.5~32	Normal mode 2.8 mA (typ); Standby mode 45 uA (typ); Sleep mode 23 uA.	EN, TXD, RXD, RSTN	LIN	SOP-8 [6x4.9]	Developing
IS32IO1163	up to 6Mbps	6.3~32	Normal mode 5 (mA) in recessive (typ) 45 (mA) in dominate (typ); standby mode 85uA (typ)	STBN, TXD, RXD, RSTN, CTS	CANH, CANL	eTSSOP-14 [5x4.4]	Sampling

Analog Part Decoder

IS 31 LT 3135 V1 - GR L S2 - TR



■ Analog Product Family

31 = Commercial/Industrial Analog
 32 = Automotive Analog and Mixed Signal

■ Product Type

AP = Audio Power Amplifier
 AS = ASIC
 BL = White LED Driver
 CG = Connectivity
 CS = MCU
 FB = Optical Transceiver Components
 FL = FxLED Driver
 IO = Multi-Function I/O Expander, CAN, LIN
 LT = HBLED Driver
 NM = Networking
 PM = Power Management
 SE = Sensor

■ Temperature Grade

S1 = Commercial temp. [0°C to +70°C]
 S2 = Industrial temp. [-40°C to +85°C]
 S3 = Industrial temp. [-40°C to +105°C]
 S4 = Industrial temp. [-40°C to +125°C]
 A1 = Automotive temp. [-40°C to +85°C]
 A2 = Automotive temp. [-40°C to +105°C]
 A3 = Automotive temp. [-40 to +125°C]

■ Solder Type

Blank = Sn/Pb
 L = Lead-free [RoHS Compliant]

■ Package Type

C = WCSP, FCQFN
 D = DFN
 GR = SOP
 QF = QFN
 LQ = eLQFP
 S = MSOP
 SA = SSOP
 SD = SOT89
 ST = SOT23
 TQ = TQFP
 TT = TSOT
 UT = UTQFN
 QW = Wettable flank QFN
 QWC = Wettable flank
 QFN+flip chip
 QU = UQFN
 Z = eTSSOP

■ Voltage Range / Parameters

Sense Voltage Range

V1 = 91mV to 101mV
 V2 = 99mV to 110mV

Under-Voltage Range

V1 = 1.13V to 1.21V
 V2 = 1.19V to 1.26V

■ Package Option

Blank = Tray or Tube
 TR = Tape & Reel

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