### buck converter
A “buck” or “step-down” takes a higher input voltage and converts it to a lower output voltage.

### Boost Converter
A “boost” or “step-up” takes a lower input voltage and converts it to a higher output voltage.

### Linear Driver
A “linear driver” generates a fixed current that varies slightly with changes in voltage.
IS31LT3350 - 750mA Buck w/ Integrated Switch

Features
- 750mA output current with 5% accuracy
- 1MHz switching frequency with 95% efficiency
- Integrated 40V power MOS switch
- Single pin ON/OFF and brightness control using Linear or PWM
- Up to 1200 : 1 dimming ratio
- Open and short LED, thermal shutdown protection

Applications
- MR16 LED spotlight
- LED Streetlamp, wall-washer, decorative lighting
- Automobile LED decorative lights

IS31LT3360 - 1.2A Buck w/ Integrated Switch

Features
- Up to 1.2A output current with 3% accuracy
- 1MHz switching frequency with 98% efficiency
- Integrated 40V power MOS switch
- Single pin ON/OFF and brightness control using Linear or PWM
- Up to 1200 : 1 dimming ratio
- Open and short LED, thermal shutdown protection
- Temperature Ranges: S3: -40°C to +105°C, S4: -40°C to +125°C

Applications
- MR16 LED spotlight
- LED Streetlamp, wall-washer, decorative lighting
- Automobile LED decorative lights
**IS31LT3354 - Buck w/ External Switch**

**Features**
- Up to 2A output current only limited by external component selection
- 1MHz switching frequency with 98% efficiency
- Up to 1200:1 dimming ratio
- Open and short LED, thermal shutdown protection
- Single pin ON/OFF and brightness control using DC voltage or PWM

**Applications**
- MR16 LED Spot Lighting
- LED Street Lamp
- Decorative Lighting

**IS31LT3352 - 750mA Buck w/ Temperature Compensation**

**Features**
- Cascadable temperature compensation
- Integrated 40V power MOS switch
- 750mA output current with 5% accuracy
- 1MHz switching frequency with 95% efficiency
- Up to 1200:1 dimming ratio
- Accepts either DC or PWM dimming input signal

**Applications**
- MR16 LED Spot Lighting
- LED Street Lamp
- Decorative Lighting
IS31LT3953 - 3A Buck w/ Integrated Switch

Features
- Up to 3A output current
- Cycle-by-cycle current limit
- Single pin ON/OFF and brightness control using Linear or PWM
- Robust protection against:
  - Adjacent pin-to-pin short
  - Pin-to-GND short
  - Component open/short faults
- Low power shutdown [1 μA typical]

IS31LT3380 - 1.2ABuck w/ Switch Dimming

Features
- 40V/1.2A output current with 5% accuracy
- 1MHz switching frequency with 98% efficiency
- Integrated 40V power switch for decreased parts count
- Multimodes switch dimming
- Use ordinary power switch with existing wiring and fixtures
- Open and short LED, thermal shutdown protection

<table>
<thead>
<tr>
<th>DIM1</th>
<th>DIM2</th>
<th>DIM LEVELS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating</td>
<td>Floating</td>
<td>No Dimming</td>
</tr>
<tr>
<td>Floating</td>
<td>GND</td>
<td>100%-50%-20%</td>
</tr>
<tr>
<td>GND</td>
<td>Floating</td>
<td>100%-60%-30%</td>
</tr>
<tr>
<td>GND</td>
<td>GND</td>
<td>100%-30%</td>
</tr>
</tbody>
</table>

* Switch ON/OFF cycles the DIM Ratio
### IS31LT3505 - 1A Boost w/ Integrated Switch

**Features**
- 6V to 30V supply voltage
- Boost output up to 35V
- Output current up to 1A
- PWM dimming control
- 1MHz switching frequency with 90% efficiency
- Integrated 35V power switch
- Internal soft start
- Open-circuit LED thermal shutdown protection

### IS31LT3948 - Boost w/ PFM Mode

**Features**
- Wide input voltage range: 5V-100V
- Constant Current Output limited only by external component selection
- Automatically adjust boost output for constant Load current
- No loop compensation required
- Internal over-voltage protection
- Internal over-temperature protection

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**Continuous Mode Buck Converter**
6 to 40VDC

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**DC/DC Boost**

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**IS31LT3935 - TRIAC Dimming**

**Features**
- Smooth 0-100% flicker-free dimming range
- Compatibility with most TRIAC Dimmers [Digital, Leading and Trailing-edge]
- Integrated near unity Power Factor
  Correction Power Factor = 0.99 at 13W output
- Low component count
- Low 500μA quiescent current with soft start
- Spread Spectrum switching for reduced EMI
- Efficiency: 87% from 120Vrms to 39VDC

**IS31LT3515 - Buck, Boost or Buck-boost Topology**

**Features**
- 5V to 35V supply voltage
- Buck, Boost or Buck-boost operation
- External resistor sets operating frequency up to 500Khz
- Gate clamp voltage to drive low cost MOSFET
- Easy dimming: Analog or PWM
- Internal soft start
- Protections:
  - Over voltage
  - Short circuit
  - Under voltage
  - Over Temperature

**Continuous Mode Buck Converter 6 to 40VDC**

**DC/DC Buck-boost & AC/DC**
**IS31LT3918 - Switch and 3-level Dimming**

Features
- Wide input range from 6VDC to 450DC or 85VAC to 265VAC
- 92% efficiency with 3% output current accuracy
- Linear, PWM or switch dimming capability
- Use ordinary power switch with existing wiring and fixtures
- Over current, voltage and temp protection
- Requires few external components
- Non-isolated Design

**IS31LT3938 - Switch and 3-level Dimming**

Features
- Wide input voltage range: 10VDC~450VDC or 85Vac~265Vac
- High efficiency with 3% output current accuracy
- High MOS gate drive voltage
- Linear, PWM or switch dimming
- User configurable power sequencing levels
- Over current, temperature and short circuit protection
- Use ordinary power switch with existing wiring and fixtures
**IS31LT3916** - Flyback, Buck-boost Isolated LED Driver with Integrated PFC

**Features**
- Active Power Factor Correction to > 0.95
- 5% typical current accuracy up to 1A
- No loop compensation required
- Wide input voltage range: 90V to 260VAC
- Isolated and non-isolated design
- Internal over-temperature protection
- Primary side OCP
- Overvoltage Protection

**IS31LT3932** - True Constant Current

**Features**
- Universal Input Voltage: 85~265Vac
- Configurable for fly-back, buck-boost or buck topology
- ± 5% line regulation and load regulation
- Constant LED current with ± 3% accuracy
- Integrated near unity Power Factor Correction
- Low 15μA startup current with soft start
- MOSFET valley turn-on (Buck) and high gate drive
- Integrated protections
  - No Load and open feedback protection
  - UVLO, OCP, OVP and OTP protections
Linear Driver

**IS31LT3135 - Main/Aux Dual Channel LED Driver with Automatic Switchover**

**Features**
- Optimized for battery powered & Mining lamp applications
- Intelligent Battery undervoltage detect
- Sparkless Manual or Auto switch from Main to Aux LED
- Over-temperature and short circuit protection
- Main/Aux channel current set by external resistors
- Low IC quiescent current less than 300uA

**IS31LT3117 - 4-Channel CCR**

**Features**
- Four 350mA channels, 1.4A total output
- Current matching 3% between channels
- Thermal current regulation above 130°C
- PWM dimming and Shutdown control input
- VREF 2.5V output to drive external standoff BJTs for high voltage/current operation
- Low IC quiescent current less than 100uA
- PWM frequency up to 100KHz
Linear Driver

**IS31LT3170 - 10-to-150mA CCR**

**Features**
- Adjustable continuous output current up to 150 mA with an external resistor on ADJ pin
- LED drive current preset to 10 mA
- Supply voltage up to 40 V
- Low or high side current control
- Negative thermal coefficient of -0.2 %/K reduces output current at higher temperatures
- Up to 1 W power dissipation in a small SOT23-6 package

**IS31LT3171 - 10-to-150mA CCR with PWM**

**Features**
- EN pin for up to 10kHz PWM
- Adjustable continuous output current up to 150 mA with an external resistor on ADJ pin
- LED drive current preset to 10 mA
- Supply voltage up to 40 V
- Low or high side current control
- Negative thermal coefficient of -0.2 %/K reduces output current at higher temperatures
- Up to 1 W power dissipation in a small SOT23-6 package
IS32LT3120 - Dual Channel CCR with Fade IN/OUT

**Features**

- Input voltage range: 5V to 45V
- Dual output channels can source up to 200mA
- Independent ON/OFF button control for each channel - debounced inputs
- Programmable functions with external resistor
  - Set gamma corrected fade IN/OUT speed
  - Set channel current
- Protections for LED string short to GND, LED string open, over temperature
- Automotive AEC-Q100 Qualified [Pending]

IS32LT3180 - Eight Channel, Dual Intensity CCR

**Features**

- 6V-55V voltage input with load dump protection
- Eight channel CCR for automotive rear tail light
- Output current programmable from 10mA to 75mA
- Tail duty cycle programmable from 1% to 95%
- Low dropout voltage of 0.5V for minimal power dissipation
- Dual function /PWM input selects between DC output and PWM
- Output over temperature current reduction
- Automotive AEC-Q100 Qualified [Pending]
**Automotive Boost Backlight Driver**

**IS32BL3552 - Two Channel Boost**

**Features**
- 2 current sinks adjustable 40 to 360mA
  - String-to-string current matching of 1.5%
  - High contrast ratio
  - External PWM dimming
- Input voltage range: 4.5V to 33V
- Operating frequency: 100kHz to 1MHz
- Protections for: OCP, OTP, UVLO, LED open/short, programmable OVP
- Automotive AEC-Q100 Qualified (Pending)

**IS32BL3554 - Four Channel Boost**

**Features**
- 4 current sinks adjustable 20 to 180mA
  - String-to-string current matching of 1.5%
  - High contrast ratio
  - External PWM dimming
- Input voltage range: 4.5V to 33V
- Operating frequency: 100kHz to 1MHz
- Protections for: OCP, OTP, UVLO, LED open/short, programmable OVP
- Automotive AEC-Q100 Qualified (Pending)
**IS32BL3556 - Six Channel Boost**

**Features**
- 6 current sink adjustable 20 to 180mA
  - String-to-string current matching of 0.8%
  - High contrast ratio
  - External PWM dimming
- Input voltage range: 5V to 40V
- Operating frequency up to 2.3MHz
  - Synchronize capable
- Protections for: OCP, OTP, UVLO, LED open/short, programmable OVP
- Automotive AEC-Q100 Qualified (Pending)

**IS32LT3117 - 4-Channel CCR**

**Features**
- Four 350mA channels, 1.4A total output
- Current matching 3% between channels
- Thermal current regulation above 130°C
- PWM dimming and Shutdown control input
- VREF 2.5V output to drive external standoff BJTs for high voltage/current operation
- Low IC quiescent current less than 300µA
- Automotive AEC-Q100 Qualified (Pending)
**IS32LT3170 - 10-to-150mA CCR**

Features

- Adjustable continuous output current up to 150 mA with an external resistor on ADJ pin
- LED drive current preset to 10 mA
- Supply voltage up to 40 V
- Low or high side current control
- Negative thermal coefficient of -0.2%/K reduces output current at higher temperatures
- Up to 1 W power dissipation in a small SOT23-6 package
- Automotive AEC-Q100 Qualified (Pending)

**IS32LT3171 - 10-to-150mA CCR with PWM**

Features

- EN pin for up to 10kHz PWM
- Adjustable continuous output current up to 150 mA with an external resistor on ADJ pin
- LED drive current preset to 10 mA
- Supply voltage up to 40 V
- Low or high side current control
- Negative thermal coefficient of -0.2%/K reduces output current at higher temperatures
- Up to 1 W power dissipation in a small TSOP-6 package
- Automotive AEC-Q100 Qualified (Pending)
Automotive DC/DC Buck

**IS32LT3953 - 3A Buck w/ Integrated Switch**

**Features**
- Up to 3A output current
- Cycle-by-cycle current limit
- Single pin ON/OFF and brightness control using Linear or PWM
- Robust protection against:
  - Adjacent pin-to-pin short
  - Pin-to-GND short
  - Component open/short faults
- Low power shutdown (1 μA typical)
- Automotive AEC-Q100 Qualified [Pending]
# Product Selector Guide

## Switching (AC/DC & DC/DC)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Driver</th>
<th>VIN (V)</th>
<th>IOUT Accuracy</th>
<th>Effcy (%)</th>
<th>Power Transistor</th>
<th>Typical Applications</th>
<th>Package</th>
<th>Key Feature</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS31LT3350</td>
<td>DC/DC</td>
<td>6-40</td>
<td>750mA ±5%</td>
<td>95</td>
<td>Built-in</td>
<td>Low voltage LED lighting, MR16 replacement</td>
<td>SOT23-5, SOT89-5</td>
<td>Single pin ON/OFF or brightness control with DC/PWM, thermal shutdown</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3352</td>
<td>DC/DC</td>
<td>6-40</td>
<td>750mA ±5%</td>
<td>95</td>
<td>Built-in</td>
<td>Low voltage LED lighting, MR16 replacement</td>
<td>SOP-8</td>
<td>Cascadable, temp. compensation and one pin ON/OFF/dimming control</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3354</td>
<td>DC/DC</td>
<td>6-40</td>
<td>&lt; 2.5A ±5%</td>
<td>95</td>
<td>External</td>
<td>Low volt. LED lighting, Illuminated sign</td>
<td>SOT23-5</td>
<td>1200:1 dimming ratio LED driver with thermal shutdown protection</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3360*</td>
<td>DC/DC</td>
<td>6-40</td>
<td>1.2A ±3%</td>
<td>98</td>
<td>Built-in</td>
<td>MR16, MR11 spot light</td>
<td>SOT89-5</td>
<td>High efficiency with buck converter, with analog or PWM dimming</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3380</td>
<td>DC/DC</td>
<td>8.5-40</td>
<td>1.2A ±5%</td>
<td>98</td>
<td>Built-in</td>
<td>MR16, MR11 spot light, PAR light</td>
<td>SOP-8</td>
<td>3-level switch dimming control, open/short and thermal shutdown protection</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3505</td>
<td>DC/Boost</td>
<td>6-30</td>
<td>24W ±5%</td>
<td>90</td>
<td>Built-in</td>
<td>Battery powered LED, solar light</td>
<td>MSOP-10</td>
<td>1MHz Boost Converter with 30V Internal NMOS</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3515</td>
<td>DC/DC</td>
<td>5-35</td>
<td>±3%</td>
<td>90</td>
<td>External</td>
<td>Industrial, street lighting</td>
<td>SOP-16</td>
<td>35V Buck/Boost, Buck/Boost operation</td>
<td>S=Q2/14</td>
</tr>
<tr>
<td>IS31LT3948</td>
<td>DC/DC</td>
<td>5-100</td>
<td>90</td>
<td>External</td>
<td>Streetlamp, LED lighting, Gen. illum.</td>
<td>SOP-8</td>
<td>Wide input voltage range, Boost, over-voltage/temperature protection</td>
<td>Prod</td>
<td></td>
</tr>
<tr>
<td>IS31LT3910</td>
<td>AC/DC</td>
<td>8-450 DC</td>
<td>500mA ±7%</td>
<td>90</td>
<td>External</td>
<td>T8, PAR light</td>
<td>SOP-8</td>
<td>Non-isolation, linear/PWM dimming, temperature compensation</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3916</td>
<td>AC/DC</td>
<td>90-260 AC</td>
<td>PF &gt; 0.9</td>
<td>85</td>
<td>External</td>
<td>T8, Bulb Replacement, PAR light</td>
<td>MSOP-8</td>
<td>Isolated and Non-Isolated; Offline LED Driver with Active PFC</td>
<td>Prod</td>
</tr>
</tbody>
</table>

## Switching (AC/DC & DC/DC)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Driver</th>
<th>VIN (V)</th>
<th>IOUT Accuracy</th>
<th>Effcy (%)</th>
<th>Power Transistor</th>
<th>Typical Applications</th>
<th>Package</th>
<th>Key Feature</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS31LT3918</td>
<td>DC/DC</td>
<td>6-450 DC AC/DC</td>
<td>- ±3%</td>
<td>95</td>
<td>External</td>
<td>LED Lighting; Signal &amp; decor. lighting, T8</td>
<td>SOP-8</td>
<td>High voltage LED driver with 3-level Switch Dimming</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3932</td>
<td>AC/DC</td>
<td>85-265 AC</td>
<td>PF &gt; 0.95</td>
<td>&gt;85</td>
<td>External</td>
<td>Retrofit Bulb, Tube, PAR Lighting</td>
<td>SOP-8</td>
<td>High Power factor, Low THD Universal Constant Current</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3935</td>
<td>AC/DC</td>
<td>110/220 AC</td>
<td>PF &gt; 0.95</td>
<td>87</td>
<td>External</td>
<td>Bulb Replacement, spot light, PAR light</td>
<td>DFN10 3x3</td>
<td>25W Triac Dimmable Active PF Isolated and Non-Isolated</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3938</td>
<td>DC/AC, DC/AC</td>
<td>10-450 DC AC/DC</td>
<td>- ±3%</td>
<td>95</td>
<td>External</td>
<td>LED Lighting; Signal &amp; decorative lighting</td>
<td>SOP-8</td>
<td>High voltage LED driver with Switch Dimming, Single External FET</td>
<td>Prod</td>
</tr>
</tbody>
</table>

* -40°C to +125°C Extended Temperature range option available
### Automotive (Industrial)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Driver</th>
<th>VIN [V]</th>
<th>IOUT Accuracy</th>
<th>Power Transistor</th>
<th>Typical Applications</th>
<th>Package</th>
<th>Key Feature</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS32BL3552</td>
<td>DC/DC</td>
<td>4.5 - 33V</td>
<td>±1.5%</td>
<td>External</td>
<td>Automotive lighting, LCD display backlight</td>
<td>eTSSOP-16</td>
<td>Two channel LED current sinks, 40 to 360mA per string. String-to-string accuracy 1.5%</td>
<td>Sample</td>
</tr>
<tr>
<td>IS32BL3554</td>
<td>DC/DC</td>
<td>4.5 - 33V</td>
<td>±1.5%</td>
<td>External</td>
<td>Automotive lighting, LCD display backlight</td>
<td>eTSSOP-16</td>
<td>Four 20 to 180mA channel current sinks. String-to-string accuracy 1.5%</td>
<td>Sample</td>
</tr>
<tr>
<td>IS32BL3556</td>
<td>DC/DC</td>
<td>5 - 40V</td>
<td>±0.8%</td>
<td>External</td>
<td>Automotive lighting, LCD monitor backlight</td>
<td>eTSSOP-24</td>
<td>Six 20 to 180mA channel current sinks. String-to-string accuracy 0.8%</td>
<td>S=Q3/14</td>
</tr>
<tr>
<td>IS32LT3117</td>
<td>Linear</td>
<td>6 - 60V</td>
<td>±5.0%</td>
<td>Integrated</td>
<td>Automotive cabin lighting, Low-side CCR</td>
<td>eTSSOP-16</td>
<td>Four 350 mA channel current sinks. Support for external ballast transistor</td>
<td>S=Q2/14</td>
</tr>
<tr>
<td>IS31LT3953</td>
<td>DC/DC</td>
<td>6 - 48V</td>
<td>-</td>
<td>Integrated</td>
<td>Automotive lighting, dimmable light</td>
<td>eSOIC-8</td>
<td>200kHz to 2MHz DC/DC 3.0A dimmable buck regulator with robust protection features</td>
<td>S=Q3/14</td>
</tr>
<tr>
<td>IS32LT3953</td>
<td>DC/DC</td>
<td>6 - 48V</td>
<td>-</td>
<td>Integrated</td>
<td>Automotive lighting, dimmable light</td>
<td>eSOIC-8</td>
<td>200kHz to 2MHz DC/DC 3.0A dimmable buck regulator with robust protection features</td>
<td>S=Q3/14</td>
</tr>
<tr>
<td>IS32LT3170/1</td>
<td>Linear</td>
<td>2 - 40V</td>
<td>-</td>
<td>Integrated</td>
<td>Automotive lighting, emergency lighting, retail lighting</td>
<td>SOT23-6</td>
<td>Adjustable CCR 10 to 150mA, negative thermal coeff., low / high side, IS32LT3171 PWM dimming</td>
<td>S=Q2/14</td>
</tr>
<tr>
<td>IS32LT3120</td>
<td>Linear</td>
<td>6 - 60V</td>
<td>-</td>
<td>Integrated</td>
<td>Automotive cabin lighting, map &amp; dome light</td>
<td>SOP8-EP</td>
<td>Two channel CCR with two debounced switch inputs, LED fade IN/OUT</td>
<td>S=Q3/14</td>
</tr>
<tr>
<td>IS32LT3180</td>
<td>Linear</td>
<td>6 - 60V</td>
<td>±5.0%</td>
<td>Integrated</td>
<td>Automotive cabin lighting, Low-side CCR</td>
<td>eTSSOP-16</td>
<td>Eight channel CCR with two debounced switch inputs, LCD panel/mirror</td>
<td>S=Q3/14</td>
</tr>
</tbody>
</table>

### Linear

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Driver</th>
<th>VIN [V]</th>
<th>IOUT Accuracy</th>
<th>Power Transistor</th>
<th>Typical Applications</th>
<th>Package</th>
<th>Key Feature</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS31LT3135</td>
<td>Constant Current</td>
<td>2.7-5.5</td>
<td>500mA ±5%</td>
<td>Built-in</td>
<td>Miner lamp, Torch, Battery powered LED lighting</td>
<td>SOP-8</td>
<td>Main/sub dual-channel driver with short circuit and over temp. protection</td>
<td>Prod</td>
</tr>
<tr>
<td>IS31LT3117</td>
<td>Linear</td>
<td>6 - 60V</td>
<td>±5.0%</td>
<td>Integrated</td>
<td>Low-side CCR</td>
<td>eTSSOP-16</td>
<td>Four 350 mA channel current sinks. Support for external ballast transistor</td>
<td>S=Q1/14</td>
</tr>
<tr>
<td>IS31LT3170/1</td>
<td>Linear</td>
<td>2 - 40V</td>
<td>-</td>
<td>Integrated</td>
<td>Emergency lighting, retail lighting</td>
<td>SOT23-6</td>
<td>Adjustable CCR 10 to 150mA, negative thermal coeff., low / high side, IS32LT3171 PWM dimming</td>
<td>S=Q1/14</td>
</tr>
</tbody>
</table>

### Evaluation Boards

**Note**: Visit www.issi.com for a complete list of Evaluation Boards.

<table>
<thead>
<tr>
<th>Device</th>
<th>Evaluation Board</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS31LT3135</td>
<td>IS31LT3135-V1GRS2-EB</td>
<td>Dual Ch. - 1.17V</td>
</tr>
<tr>
<td>IS31LT3350</td>
<td>IS31LT3350-V1SDLS2-EBCH</td>
<td>3CH</td>
</tr>
<tr>
<td>IS31LT3354</td>
<td>IS31LT3354_STLS2_EBCDC</td>
<td>AC Input</td>
</tr>
<tr>
<td>IS31LT3360</td>
<td>IS31LT3360-SDL3-EBMR16 IS31LT3360-SDL3-EBAC</td>
<td>MR16, AIC</td>
</tr>
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Part Decoder

Ordering Information

- Analog Product Family
  31 = Analog and Mixed Signal
  32 = Automotive Analog and Mixed Signal

- Product Type
  AP = Audio Power Amplifier
  BL = White LED Driver for LCD Backlight
  FL = FxLED Driver
  LT = Lighting LED Driver

- Temperature Grade
  S1 = Commercial (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 Grade (-40°C to +85°C)
  A2 = Automotive Grade (-40°C to +105°C)
  A3 = Automotive temp. (-40 to 125°C)

- Solder Type
  Blank = Sn/Pb
  L = Lead-free (RoHS Compliant)

- 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
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<tr>
<td>HEADQUARTERS</td>
<td>West Coast</td>
<td>San Jose, CA</td>
<td>408-969-6600 Tel.</td>
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<td>408-969-7800 Fax.</td>
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<tr>
<td>Central USA</td>
<td>Copell, TX</td>
<td>972-393-9900 Tel.</td>
<td>408-969-4749 Fax.</td>
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<td>Dunstable, MA</td>
<td>978-649-1216 Tel.</td>
<td>978-649-3208 Fax.</td>
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<td>86-755-88319810 Fax</td>
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<td>86-592-3228128 Tel.</td>
<td>86-592-3228077 Fax.</td>
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<tr>
<td>India, Bangalore</td>
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<td>91-80-41472556 Tel.</td>
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<td>91-44-42218428 Tel.</td>
<td>91-44-42218222 Fax.</td>
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<td>91-11-46536132 Tel.</td>
<td>91-80-22251133 Fax.</td>
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<td>Japan, Tokyo</td>
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<td>81-3-5339-2950 Tel.</td>
<td>81-3-5339-2951 Fax.</td>
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<td>Korea, Kyunggi-Do</td>
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<td>82-31-715-6406 Tel.</td>
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<tr>
<td>Singapore</td>
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<td>+65-6316-3035 Tel.</td>
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Innovative Analog and Mixed Signal Solutions