

LEDドライバ

LEDドライバ

P.77

LEDドライバ

昇圧LEDドライバ

| FET外付け 白色LEDドライバ       |              |   |  |  |  |                                    |                                  |
|------------------------|--------------|---|--|--|--|------------------------------------|----------------------------------|
| 品名                     | 電源電圧 (V)     | LED灯数   | 出力電圧 (V)                                       | スイッチング周波数 (MHz)  | 主な輝度制御方式   | 制御インタフェース                          | パッケージ (mm)                       |
| BD6583MUV-A            | 2.7 to 22.0  | Max 72<br>12series×6strings in parallel<br>(V <sub>r</sub> restrictions exist)                          | Max 43.0                                       | 1  | PWM signal from the PWMPW/PWMDRV terminal<br>Resistance switching at the ISET terminal | Pin logic setting                  | VQFN024V4040                     |
| BD9486F                | 9 to 18      | Max About 120<br>120series×1string in parallel  | Max About 400                                  | 0.05 to 0.80   | PWM signal<br>Analog signal  | Pin logic setting                  | SOP16                            |
| BD9411F                | 9 to 35      | Max About 120<br>120series×1string in parallel  | Max About 400                                  | 0.05 to 1.00   | PWM signal<br>Analog signal  | Pin logic setting                  | SOP18                            |
| BD9413F                | 9 to 35      | Max About 120<br>120series×1string in parallel  | Max About 400                                  | 0.05 to 1.00   | PWM signal<br>Analog signal  | Pin logic setting                  | SOP18                            |
| BD9483F                | 11 to 35     | Max About 240<br>120series×2strings in parallel   | Max About 400                                  | 0.05 to 0.80   | PWM signal<br>Analog signal  | Pin logic setting                  | SOP24                            |
| BD9483FV               | 11 to 35     | Max About 240<br>120series×2strings in parallel   | Max About 400                                  | 0.05 to 0.80   | PWM signal<br>Analog signal  | Pin logic setting                  | SSOP-B24                         |
| BD9416F                | 9 to 35      | Max About 240<br>120series×2strings in parallel   | Max About 400                                  | 0.05 to 1.00   | PWM signal<br>Analog signal  | Pin logic setting                  | SOP24                            |
| BD9416FS               | 9 to 35      | Max About 240<br>120series×2strings in parallel   | Max About 400                                  | 0.05 to 1.00   | PWM signal<br>Analog signal  | Pin logic setting                  | SSOP-A24                         |
| BD9479FV               | 9 to 35      | Max About 96<br>12series×8strings in parallel   | Max About 40                                   | 0.1 to 0.8   | PWM signal<br>Analog signal  | Pin logic setting                  | SSOP-B40                         |
| BD9408FV               | 9 to 35      | Max About 120<br>120series×1string in parallel  | Max About 400                                  | 0.05 to 2.00   | PWM signal<br>Analog signal  | Pin logic setting                  | SSOP-B14                         |
| BD9409F                | 11.5 to 35.0 | Max About 120<br>120series×1string in parallel  | Max About 400                                  | 0.05 to 1.00   | PWM signal<br>Analog signal  | Pin logic setting                  | SOP16                            |
| BD9420F                | 9 to 35      | Max 72<br>12series×6strings in parallel<br>(V <sub>r</sub> restrictions exist)                          | Max About 40                                   | 0.1 to 0.8   | PWM signal<br>Analog signal  | Pin logic setting                  | SOP28                            |
| BD9421F                | 9 to 35      | Max 72<br>12series×6strings in parallel<br>(V <sub>r</sub> restrictions exist)                          | Max About 40                                   | 0.1 to 0.8   | PWM signal<br>Analog signal  | Pin logic setting                  | SOP24                            |
| FET内蔵 白色LEDドライバ        |              |   |  |  |  |                                    |                                  |
| BD60A00NUX             | 2.7 to 5.5   | Max 10<br>10series×1string in parallel  | Max 40.0                                       | 0.6  | PWM signal<br>Resistance switching at the ISET terminal                                | Pin logic setting                  | VSON008X2030                     |
| BD60A60NUX             | 2.7 to 5.5   | Max 6<br>6series×1string in parallel  | Max 26.0                                       | 0.6  | PWM signal<br>Resistance switching at the ISET terminal                                | Pin logic setting                  | VSON008X2030                     |
| BD65B60GWL             | 2.7 to 5.5   | Max 16<br>8series×2strings in parallel  | Max 28.5                                       | 1.1/0.6  | I <sup>2</sup> C BUS<br>PWM signal<br>Resistance switching at the ISET terminal        | I <sup>2</sup> C BUS<br>+<br>PWM   | UCSP50L1<br>1.4×1.8, H=Max 0.55  |
| BD6586MUV              | 2.7 to 5.5   | Max 24<br>6series×4strings in parallel  | Max 24.0                                       | 1  | PWM signal<br>Resistance switching at the ISET terminal                                | Pin logic setting                  | VQFN024V4040                     |
| BD65D00MUV             | 6 to 27      | Max 40<br>10series×4strings in parallel   | Internal FET Max 40.0<br>External FET Max 80.0 | 0.6 to 1.6   | PWM signal<br>Resistance switching at the ISET terminal<br>Analog voltage control      | Pin logic setting                  | VQFN028V5050                     |
| BD6142AMUV             | 4.2 to 27    | Max 80<br>10series×8strings in parallel   | Max 41.0                                       | 0.6 to 1.6   | PWM signal<br>Resistance switching at the ISET terminal<br>Analog voltage control      | Pin logic setting                  | VQFN024V4040                     |
| BD9394EFV              | 9 to 35      | Max 72<br>18series×4strings in parallel   | Max 60.0                                       | 0.1 to 0.8   | PWM signal<br>Analog signal  | Pin logic setting                  | HTSSOP-B24                       |
| BD9394FP               | 9 to 35      | Max 72<br>18series×4strings in parallel   | Max 60.0                                       | 0.1 to 0.8   | PWM signal<br>Analog signal  | Pin logic setting                  | HSOP20                           |
| BD93941EFV             | 9 to 35      | Max 72<br>18series×4strings in parallel   | Max 60.0                                       | 0.1 to 0.8   | PWM signal<br>Analog signal  | Pin logic setting                  | HTSSOP-B20                       |
| BD93941FP              | 9 to 35      | Max 72<br>18series×4strings in parallel   | Max 60.0                                       | 0.1 to 0.8   | PWM signal<br>Analog signal  | Pin logic setting                  | HSOP20                           |
| BD93942F               | 9 to 35      | Max 72<br>18series×4strings in parallel   | Max 60.0                                       | 0.1 to 0.8   | PWM signal<br>Analog signal  | Pin logic setting                  | SOP16                            |
| BD9470AEFV             | 9 to 35      | Max 72<br>18series×4strings in parallel   | Max 40.0                                       | 0.1 to 0.5   | PWM signal   | Pin logic setting                  | HTSSOP-B28                       |
| BD9470AFM              | 9 to 35      | Max 72<br>18series×4strings in parallel   | Max 40.0                                       | 0.1 to 0.5   | PWM signal   | Pin logic setting                  | HSOP-M28                         |
| BD9397EFV              | 9 to 35      | Max 84<br>14series×6strings in parallel   | Max 50.0                                       | 0.10 to 1.25   | PWM signal<br>Analog signal  | Pin logic setting                  | HTSSOP-B40                       |
| BD9422EFV              | 9 to 35      | Max 84<br>14series×6strings in parallel   | Max 60.0                                       | 0.10 to 1.25   | PWM signal<br>Analog signal  | Pin logic setting I <sup>2</sup> C | HTSSOP-B40                       |
| FET内蔵 同期整流方式 白色LEDドライバ |              |   |  |  |  |                                    |                                  |
| BD6071HFN              | 2.7 to 5.5   | Max 3<br>3series×1string in parallel  | Max 14.0                                       | 1  | PWM signal from EN terminal  | —                                  | HSO8                             |
| BD6072HFN              | 2.7 to 5.5   | Max 4<br>4series×1string in parallel  | Max 18.0                                       | 1  | PWM signal from EN terminal  | —                                  | HSO8                             |
| LEDカメラフラッシュドライバ        |              |   |  |  |  |                                    |                                  |
| 品名                     | 電源電圧 (V)     | LED灯数   | 出力電圧 (V)                                       | 出力電流   | スイッチング周波数 (MHz)  | 制御インタフェース                          | パッケージ (mm)                       |
| BD6164GUT              | 2.7 to 4.5   | 1<br>(Large current LED)  | Max 4.7  | 52, 72mA (Torch mode)<br>260, 280, 300, 320mA (Flash mode) | 4  | I <sup>2</sup> C BUS               | VCSP60N1<br>1.5×1.1, H=Max 0.675 |
| BD7757MWX              | 2.7 to 5.0   | Max 2<br>1 to 2series×1string in parallel<br>(V <sub>r</sub> restrictions exist)<br>(large current LED) | Max 5.1  | 0 to 1.5A  | 2  | UPIC*                              | USON014X3020                     |

\*UPIC: Uni-Port Interface Control

## 昇圧LEDドライバ

### ヘッドライト用LEDドライバ

| 品名                      | 電源電圧 (V)    | アプリケーション      | ch | 耐圧 (V) | 出力電流                  | 調光モード        | DC/DC | 動作温度 (°C)   | パッケージ      | ComfySIL™<br>機能安全*1<br>カテゴリ | 車載対応<br>AEC-Q100 |
|-------------------------|-------------|---------------|----|--------|-----------------------|--------------|-------|-------------|------------|-----------------------------|------------------|
| BD18351EFV-M            | 4.5 to 65.0 | Head Lamp/DRL | 1  | 65     | Depend on Extra parts | PWM/Analog   | Boost | -40 to +125 | HTSSOP-B24 | FSs                         | YES              |
| BD18353EFV-M            | 5 to 65     |               |    |        |                       | HTSSOP-B20   |       |             | FSs        | YES                         |                  |
| <b>New</b> BD18353MUF-M | 5 to 65     |               |    |        |                       | VQFN20FV3535 |       |             | FSs        | YES                         |                  |

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## 降圧LEDドライバ

### DC/DCコンバータタイプ 降圧型LED照明ドライバ

| 品名       | 電源電圧 (V)     | スイッチング端子電圧 (V) | Ron (Ω)    | 発信周波数 (kHz) | 過電流保護 | パッケージ  |
|----------|--------------|----------------|------------|-------------|-------|--------|
| BM531Q11 | 9.0 to 35.0  | 250            | 0.93 (Typ) | Max 440     | ✓     | DIP7AK |
| BD94062F | 10.5 to 35.0 | -              | -          | Max 800     | ✓     | SOP16  |

### PFCダイレクト電流共振タイプ 大画面向け白色LEDドライバ

| 品名       | 電源電圧 (V)    | 駆動方式        | 発振周波数可変 (kHz) | 主な輝度制御方式                 | 制御インターフェース        | パッケージ |
|----------|-------------|-------------|---------------|--------------------------|-------------------|-------|
| BD92111F | 8.0 to 18.0 | Half Bridge | 30 to 200     | PWM signal               | Pin logic setting | SOP18 |
| BD94121F | 9.0 to 18.0 | Half Bridge | 30 to 300     | PWM signal/Analog signal | Pin logic setting | SOP18 |
| BD94122F | 9.0 to 18.0 | Half Bridge | 30 to 300     | PWM signal/Analog signal | Pin logic setting | SOP18 |

### ヘッドライト用LEDドライバ

| 品名                      | 電源電圧 (V)    | アプリケーション      | ch | 耐圧 (V) | 出力電流 | 調光モード      | DC/DC | 動作温度 (°C)   | パッケージ      | ComfySIL™<br>機能安全*1<br>カテゴリ | 車載対応<br>AEC-Q100 |
|-------------------------|-------------|---------------|----|--------|------|------------|-------|-------------|------------|-----------------------------|------------------|
| <b>New</b> BD18395EFV-M | 4.5 to 70.0 | Head Lamp/DRL | 1  | 70     | 2A   | PWM/Analog | Buck  | -40 to +125 | HTSSOP-B20 | FSs                         | YES              |

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## 昇降圧LEDドライバ

### 白色LEDドライバ

| 品名           | 電源電圧 (V)    | 昇圧FET    | ch | 出力電圧 (V) | 出力電流 (mA)  | スイッチング周波数 (MHz) | PWM調光率           | 動作温度 (°C)   | パッケージ        | ComfySIL™<br>機能安全*1<br>カテゴリ | 車載対応<br>AEC-Q100 |
|--------------|-------------|----------|----|----------|------------|-----------------|------------------|-------------|--------------|-----------------------------|------------------|
| BD81A24EFV-M | 4.5 to 35.0 | Internal | 4  | Max 40   | Max 120/ch | 0.2 to 2.2      | 10,000 : 1@100Hz | -40 to +125 | HTSSOP-B28   | FSs                         | YES              |
| BD81A24MUV-M | 4.5 to 35.0 | Internal | 4  | Max 40   | Max 120/ch | 0.2 to 2.2      | 10,000 : 1@100Hz | -40 to +125 | VQFN28SV5050 | FSs                         | YES              |
| BD81A24MUF-M | 4.5 to 35.0 | Internal | 4  | Max 40   | Max 120/ch | 0.2 to 2.2      | 10,000 : 1@100Hz | -40 to +125 | VQFN28FV5050 | FSs                         | YES              |
| BD81A44EFV-M | 4.5 to 35.0 | External | 4  | Max 40   | Max 120/ch | 0.2 to 2.2      | 10,000 : 1@100Hz | -40 to +125 | HTSSOP-B28   | FSs                         | YES              |
| BD81A44MUV-M | 4.5 to 35.0 | External | 4  | Max 40   | Max 120/ch | 0.2 to 2.2      | 10,000 : 1@100Hz | -40 to +125 | VQFN28SV5050 | FSs                         | YES              |
| BD81A44MUF-M | 4.5 to 35.0 | External | 4  | Max 40   | Max 120/ch | 0.2 to 2.2      | 10,000 : 1@100Hz | -40 to +125 | VQFN28FV5050 | FSs                         | YES              |
| BD81A74EFV-M | 4.5 to 35.0 | External | 4  | Max 40   | Max 120/ch | 0.2 to 2.2      | 10,000 : 1@100Hz | -40 to +125 | HTSSOP-B28   | FSs                         | YES              |
| BD81A74MUV-M | 4.5 to 35.0 | External | 4  | Max 40   | Max 120/ch | 0.2 to 2.2      | 10,000 : 1@100Hz | -40 to +125 | VQFN28SV5050 | FSs                         | YES              |
| BD81A76EFV-M | 4.5 to 35.0 | External | 6  | Max 40   | Max 120/ch | 0.2 to 2.2      | 10,000 : 1@100Hz | -40 to +125 | HTSSOP-B30   | FSs                         | YES              |

### ヘッドライト用LEDドライバ

| 品名           | 電源電圧 (V) | アプリケーション      | ch | 耐圧 (V) | 出力電流                 | 調光モード  | DC/DC                   | 動作温度 (°C)   | パッケージ      | ComfySIL™<br>機能安全*1<br>カテゴリ | 車載対応<br>AEC-Q100 |
|--------------|----------|---------------|----|--------|----------------------|--------|-------------------------|-------------|------------|-----------------------------|------------------|
| BD8381AEFV-M | 5 to 30  | Head Lamp/DRL | 1  | 50     | Depend on extraparts | PWM/DC | Buck-Boost, Boost, Buck | -40 to +125 | HTSSOP-B28 | FSs                         | YES              |

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## ライティング向けLEDドライバ

### 650V LED照明用ACDCコントローラ

| 品名        | 電源電圧 (V)    | AC電圧入力 (Vac) | PFC機能内蔵 | MOSFET内蔵 | LED平均電流 (mA) | スイッチング周波数 (kHz) | パッケージ  |
|-----------|-------------|--------------|---------|----------|--------------|-----------------|--------|
| BM520Q15F | 8.9 to 26.0 | 80 to 275    | -       | ✓        | up to 200    | 20 to 200       | SOP8   |
| BM521Q25F | 8.9 to 25.0 | 80 to 275    | ✓       | ✓        | up to 200    | 20 to 300       | SOP8   |
| BD521GOFJ | 8.9 to 25.0 | 80 to 275    | ✓       | -        | -            | 20 to 300       | SOP-J8 |

## インダクタ不要(チャージポンプ)LEDドライバ

### White LED Drivers

| 品名        | 電源電圧 (V)   | LED灯数  | チャージポンプ昇圧回路 |           |             | 主な輝度制御方式  | 制御インターフェース           | パッケージ        |
|-----------|------------|--------|-------------|-----------|-------------|---|----------------------|--------------|
|           |            |        | 出力電圧 (V)    | 出力電流 (mA) | ポンプ周波数      |   |                      |              |
| BD1604MUV | 2.7 to 5.5 | 1 to 4 | Max 4.5     | 120       | 1MHz        | PWM control via EN terminal Resistance switching at ISET terminal | Pin logic setting    | VQFN016V3030 |
| BD2606MVV | 2.7 to 5.5 | 1 to 6 | Max 4.7     | 120       | 250kHz/1kHz | Built-in 64-step current DAC (0.5 to 32.0mA)                      | I <sup>2</sup> C BUS | SQFN016V4040 |

## シーケンシャルウインカー専用LED Bypass スイッチ(マトリクスLEDコントローラ)

### シーケンシャル点灯制御

| 品名                      | 電源電圧 (V)    | ch | スイッチオン抵抗 (mΩ) | 最大電流 (A) | 最大CH間電圧 (V) | 最大LEDストリング電圧 (V) | 最大ICシリアル接続数 | 点灯モード             | 動作温度 (°C)   | パッケージ      | ComfySIL™<br>機能安全*1<br>カテゴリ | 車載対応<br>AEC-Q100 |
|-------------------------|-------------|----|---------------|----------|-------------|------------------|-------------|-------------------|-------------|------------|-----------------------------|------------------|
| <b>New</b> BD18362EFV-M | 5.5 to 60.0 | 8  | 230           | 1        | 9           | 48               | 2           | Sequential/Hazard | -40 to +125 | HTSSOP-B28 | FSs                         | YES              |

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定電流/シリパラ LEDドライバ

| 品名        | 電源電圧 (V)   | LED灯数                        | 定電流ドライバ                            |  |                                 |   | 制御 インタフェース           | パッケージ    |
|-----------|------------|------------------------------|------------------------------------|--|---------------------------------|---|----------------------|----------|
|           |            |                              | 最大電流設定方式                           | 最大電流                                     | チャンネル間 マッチング                    | 輝度制御  |                      |          |
| BD1754HFN | 2.7 to 5.5 | 1 to 4 (Parallel Connection) | Resistance change at ISET terminal | 32mA (at an ISET resistance of 120kΩ)    | Max 3% (at 1V LED pin voltage)  | Built-in 64-step current DAC                              | UPIC*2               | HS0N8    |
| BD2802GU  | 2.7 to 5.5 | 6 (RGB 2ch)                  | Resistance change at ISET terminal | 30.48mA (at an ISET resistance of 120kΩ) | Max 10% (at 1V LED pin voltage) | Built-in 128-step current DAC                             | I <sup>2</sup> C BUS | VCSP85H2 |
| BD2812GU  | 2.7 to 5.5 | 6 (RGB 2ch)                  | Resistance change at ISET terminal | 30.48mA (at an ISET resistance of 120kΩ) | Max 10% (at 1V LED pin voltage) | Built-in 128-step current DAC/ Inductorless (Charge Pump) | I <sup>2</sup> C BUS | VCSP85H3 |

| 品名          | 電源電圧 (V)   | 出力電圧 (V) | 出力数 (ch)     | 出力形式             | 最大LED電流 | 各出力の形式                               | その他  | 制御方式          | 最大クロック周波数 (MHz) | パッケージ        | ComfySIL™ 機能安全*1 カテゴリ | 車載対応 AEC-Q100 |
|-------------|------------|----------|--------------|------------------|---------|--------------------------------------|--|---------------|-----------------|--------------|-----------------------|---------------|
| BD8379EFV-M | 3.0 to 5.5 | 35       | 12           | Open Drain       | 50mA/ch | ON/OFF                               | -  | SPI           | 1.25            | HTSSOP-B20   | FSs                   | YES           |
| BD2808MUV-M | 3.0 to 5.5 | 20       | RGBx8 (24ch) | Constant Current | 50mA/ch | Built-in 64-step current DAC for RGB | Built-in 256-step PWM control for all channels | 2-Wire Serial | 1.0             | VQFN48MVC070 | FSs                   | YES           |
| BD8388FV-M  | 3.0 to 5.5 | 40       | 8            | Open Drain       | 50mA/ch | ON/OFF                               | -  | SPI           | 1.25            | SSOP-B16     | FSs                   | YES           |
| BD8389FV-M  | 3.0 to 5.5 | 40       | 12           | Open Drain       | 50mA/ch | ON/OFF                               | -  | SPI           | 1.25            | SSOP-B20     | FSs                   | YES           |

| 品名         | 電源電圧 (V)   | LEDマトリクス     | 最大LED電流     | 内蔵パターン |       | マトリクスデータ RAM | モバイルライト | PWM調光 (step) | 電流設定 (step) | インタフェース                                | 最大クロック周波数    | パッケージ (mm)                   |
|------------|------------|--------------|-------------|--------|-------|--------------|---------|--------------|-------------|--|--------------|------------------------------|
|            |            |              |             | Scroll | Slope |              |         |              |             |  |              |                              |
| BU26507GUL | 2.7 to 5.5 | 5x6 30dots   | 42.5mA/Line | ✓      | ✓     | 2pages       | -       | 64           | 16          | I <sup>2</sup> C BUS/SPI (2 address/-) | 400kHz/13MHz | VCSP50L2 2.5x2.5, H=Max 0.55 |
| BD26503GUL | 2.7 to 5.5 | 7x17 119dots | 30mA/Line   | ✓      | ✓     | 2pages       | -       | 64           | 16          | I <sup>2</sup> C BUS/SPI (2 address/-) | 400kHz/13MHz | VCSP50L3 3.6x3.6, H=Max 0.55 |
| BD26503KS2 | 2.7 to 5.5 | 7x17 119dots | 30mA/Line   | ✓      | ✓     | 2pages       | -       | 64           | 16          | I <sup>2</sup> C BUS/SPI (2 address/-) | 400kHz/13MHz | SQFP-T52                     |
| BU16501KS2 | 2.7 to 5.5 | 8x16 128dots | 42.5mA/Line | -      | -     | 1page        | -       | 64           | 16          | I <sup>2</sup> C BUS/SPI (2 address/-) | 400kHz/13MHz | SQFP-T52                     |

| 品名                       | 電源電圧 (V)    | アプリケーション                   | ch      | 出力                        | 耐圧 (V) | 最大出力電流 (mA)                     | 調光                        | 電流精度 (%)   | ISINK電子LEDオープン検出電圧 (V) | LEDオープン検出マスク電圧 (V) | Energy Sharing 制御電圧 (V) (Typ) | 動作温度 (°C)   | パッケージ        | ComfySIL™ 機能安全*1 カテゴリ | 車載対応 AEC-Q100 |
|--------------------------|-------------|----------------------------|---------|---------------------------|--------|---------------------------------|---------------------------|--|------------------------|--------------------|-------------------------------|-------------|--------------|-----------------------|---------------|
|                          |             |                            |         |                           |        |                                 |                           |  |                        |                    |                               |             |              |                       |               |
| BD18340FV-M              | 4.5 to 19.0 | DRL/Position/FOG/Turn/Rear | 1 to 10 | Controller (External PNP) | 70     | Total 1,000                     | PWM/DC (±5%)              | ±3 (T <sub>a</sub> =25 to 125°C)   | -                      | variable           | -                             | -40 to +125 | SSOP-B16     | FSs                   | YES           |
| BD18341FV-M              | 4.5 to 19.0 | DRL/Position/FOG/Turn/Rear | 1 to 10 | Controller (External PNP) | 70     | Total 1,000                     | PWM/DC (±12%)             | ±3 (T <sub>a</sub> =25 to 125°C)   | -                      | variable           | -                             | -40 to +125 | SSOP-B16     | FSs                   | YES           |
| BD18342FV-M              | 4.5 to 19.0 | DRL/Position/FOG/Turn/Rear | 1 to 10 | Controller (External PNP) | 70     | Total 1,000                     | PWM                       | ±3 (T <sub>a</sub> =25 to 125°C)   | -                      | variable           | -                             | -40 to +125 | SSOP-B16     | FSs                   | YES           |
| BD18343FV-M              | 4.5 to 19.0 | DRL/Position/FOG/Turn/Rear | 1 to 10 | Controller (External PNP) | 70     | Total 1,000                     | External PWM signal       | ±3 (T <sub>a</sub> =25 to 125°C)   | -                      | variable           | -                             | -40 to +125 | SSOP-B16     | FSs                   | YES           |
| BD18345EFV-M             | 4.5 to 19.0 | DRL/Position/FOG/Turn/Rear | 1 to 10 | Controller (External PNP) | 70     | Total 1,000                     | PWM/DC                    | ±3 (T <sub>a</sub> =25 to 125°C)   | -                      | variable           | -                             | -40 to +125 | HTSSOP-B20   | FSs                   | YES           |
| <b>New</b> BD18326NUF-M  | 5.5 to 20.0 | DRL/Position/FOG/Turn/Rear | 1       | Internal                  | 40     | 400mA (DC) 600mA (ON Duty: 50%) | PWM/DC                    | ±10 (Output current: 100 to 240mA) (T <sub>a</sub> =-40 to +150°C) ±5 (Output current: 240 to 600mA) (T <sub>a</sub> =-40 to +150°C) | 5.8                    | 11.0               | -                             | -40 to +150 | VSON10FV3030 | FSs                   | YES           |
| BD18336NUF-M             | 5.5 to 20.0 | DRL/Position/FOG/Turn/Rear | 1       | Internal                  | 40     | 400mA (DC) 600mA (ON Duty: 50%) | PWM/DC                    | ±10 (Output current: 100 to 240mA) (T <sub>a</sub> =-40 to +150°C) ±5 (Output current: 240 to 600mA) (T <sub>a</sub> =-40 to +150°C) | 4.1                    | 11.0               | -                             | -40 to +150 | VSON10FV3030 | FSs                   | YES           |
| BD18337EFV-M             | 5.5 to 20.0 | DRL/Position/FOG/Turn/Rear | 4       | Internal                  | 40     | 150mA/ch                        | PWM                       | ±10 (Output current: 50 to 100mA) (T <sub>a</sub> =-40 to +125°C) ±5 (Output current: 100 to 150mA) (T <sub>a</sub> =-40 to +125°C)  | -                      | 11.0               | 2.0                           | -40 to +125 | HTSSOP-B16   | FSs                   | YES           |
| <b>New</b> BD18347AEFV-M | 5.5 to 20.0 | DRL/Position/FOG/Turn/Rear | 4       | Internal                  | 40     | 150mA/ch                        | PWM                       | ±10 (Output current: 50 to 100mA) (T <sub>a</sub> =-40 to +125°C) ±5 (Output current: 100 to 150mA) (T <sub>a</sub> =-40 to +125°C)  | -                      | 7.65               | 1.5                           | -40 to +125 | HTSSOP-B16   | FSs                   | YES           |
| <b>New</b> BD18347EFV-M  | 5.5 to 20.0 | DRL/Position/FOG/Turn/Rear | 4       | Internal                  | 40     | 150mA/ch                        | PWM                       | ±10 (Output current: 50 to 100mA) (T <sub>a</sub> =-40 to +125°C) ±5 (Output current: 100 to 150mA) (T <sub>a</sub> =-40 to +125°C)  | -                      | 7.65               | 2.0                           | -40 to +125 | HTSSOP-B16   | FSs                   | YES           |
| <b>New</b> BD18327EFV-M  | 6.0 to 18.0 | 2 wheeler Turn Indicator   | 1       | Internal                  | 50     | 1.5A                            | PWM                       | Load Switch Controller   | -                      | -                  | -                             | -40 to +125 | HTSSOP-B20   | FSs                   | YES           |
| BD8372EFJ-M              | 5.5 to 40.0 | DRL/Position/FOG/Turn/Rear | 1       | Internal                  | 50     | 200                             | High Current/ Low Current | ±3 (T <sub>a</sub> =25°C)  | -                      | -                  | -                             | -40 to +125 | HTSOP-J8     | FSs                   | YES           |
| BD8372HFP-M              | 5.5 to 40.0 | DRL/Position/FOG/Turn/Rear | 1       | Internal                  | 50     | 200                             | High Current/ Low Current | ±3 (T <sub>a</sub> =25°C)  | -                      | -                  | -                             | -40 to +125 | HRP7         | FSs                   | YES           |
| BD8374EFJ-M              | 4.5 to 42.0 | DRL/Position/FOG/Turn/Rear | 1       | Internal                  | 50     | 500                             | PWM                       | ±3 (T <sub>a</sub> =25°C)  | -                      | -                  | -                             | -40 to +125 | HTSOP-J8     | FSs                   | YES           |
| BD8374HFP-M              | 4.5 to 42.0 | DRL/Position/FOG/Turn/Rear | 1       | Internal                  | 50     | 500                             | PWM                       | ±3 (T <sub>a</sub> =25°C)  | -                      | -                  | -                             | -40 to +125 | HRP7         | FSs                   | YES           |
| BD83732HFP-M             | 4.5 to 42.0 | DRL/Position/FOG/Turn/Rear | 1       | Internal                  | 50     | 500                             | PWM/DC                    | ±3 (T <sub>a</sub> =25°C)  | -                      | 7.65               | -                             | -40 to +125 | HRP7         | FSs                   | YES           |
| BD83733HFP-M             | 4.5 to 42.0 | DRL/Position/FOG/Turn/Rear | 1       | Internal                  | 50     | 500                             | PWM/DC                    | ±3 (T <sub>a</sub> =25°C)  | -                      | 11.0               | -                             | -40 to +125 | HRP7         | FSs                   | YES           |
| BD83740HFP-M             | 4.5 to 42.0 | DRL/Position/FOG/Turn/Rear | 1       | Internal                  | 50     | 500                             | PWM                       | ±3 (T <sub>a</sub> =25°C)  | -                      | -                  | -                             | -40 to +125 | HRP7         | FSs                   | YES           |
| BD83740EFJ-M             | 4.5 to 42.0 | DRL/Position/FOG/Turn/Rear | 1       | Internal                  | 50     | 500                             | PWM                       | ±3 (T <sub>a</sub> =25°C)  | -                      | -                  | -                             | -40 to +125 | HTSOP-J8     | FSs                   | YES           |

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 \*1 「ComfySIL™機能安全カテゴリ」の詳細については表紙の裏面をご覧ください。  
 \*2 UPIC : Uni-Port Interface Control