

Infineon presents new LED drivers for medium and high power LEDs at OSRAM LED Light for you booth at the Light + Building 2010

New LED drivers for 0.5W, 1W and higher wattage LEDs expand Infineon portfolio for general lighting

With the introduction of the cost-efficient, small size and easy to use BCR320U and BCR420U LED driver family, Infineon fulfills the market demand for LED drivers dedicated to drive 0.5W LEDs with typical LED currents of 150mA to 200mA. No additional capacitors or inductors are required in the circuit, as these LED drivers are based on a linear topology.

The new ILD4xxx step-down LED drivers, which will premiere at the OSRAM LED Light for you booth at the Light + Building 2010 in Frankfurt, are tailored to drive LED currents from 350mA to 1800mA and above, making them ideal for driving 1W, 3W and even higher power LEDs from supply voltages of up to 40V. The ILD4xxx featureset contains an overvoltage, overcurrent and overtemperature protection and the ability to dim LEDs either with a digital PWM signal or an analog voltage. Housed in small packages, these LED drivers provide easy to use and cost efficient LED driving solution for general lighting applications.

The BCR420U/BCR421U and BCR320U/BCR321U provide a low-cost solution for driving 0.25W to 0.5W LEDs with a typical LED current of 100mA to 250mA. Internal breakdown voltage is 24V, respectively 40V, this is the maximum voltage that the LED driver IC can sustain when connected to it directly.

The BCR320U/BCR420U can be operated at higher supply voltages, by simply stacking a series of LEDs in front of the LED drivers, resulting in a certain voltage drop depending on the forward voltages of the LEDs, reducing the voltage at the supply pin of the driver below 40V. A digital input pin (BCR321U, BCR421U) allows dimming via a microcontroller. A reduction of the output current at higher temperatures is the result of the negative thermal coefficient of 0.2% /K. of the LED drivers.

With no need for additional external components like inductors, capacitors and free wheeling diodes, the BCR420U/BCR421U LED drivers are a cost-efficient and PCB-area saving solution for driving 0.25W – 0.5W LEDs.

The new ILD4xxx family consists of four DC/DC step down LED drivers: The ILD4035, with an

internal power stage for driving LEDs at 350mA, the ILD4120 for LED currents up to 1200mA, the ILD4180 for LED currents up to 1800mA and the ILD4001, which can drive currents up to several Ampere with an external MOSFET. All members of the ILD family come with an overvoltage and overcurrent protection as well as a thermal protection, shutting down the circuit when the temperature rises above 125°C. All these LED drivers support LED dimming with a digital PWM signal and the ILD4035, ILD4120 and ILD4001 feature the additional option to dim the LEDs with an analog voltage. The ILD4035, ILD4120 and ILD4001 have a supply voltage of maximum 40V, whereas the ILD4180 has a limit of 45V.

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