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| |  |  |  | | --- | --- | --- | | |  | | --- | | Increase the efficiency of your high voltage designs with new featured power products from ROHM |  |  | | --- | | [View this email in your browser](http://us8.campaign-archive1.com/?u=18656ef6df14c935d4d9192ee&id=07624c0d89&e=b04fd2dbfc" \t "_blank) | | |
| |  |  | | --- | --- | | |  | | --- | | https://gallery.mailchimp.com/18656ef6df14c935d4d9192ee/images/80985d9d-059b-4305-a14e-cc904ee1c847.jpg | |  |  |  | | --- | --- | | |  | | --- | | March 2016 Welcome to ROHM’s Power Solutions newsletter. We look forward to creating more product solutions that address your design needs. Here are some of our featured products for this quarter... | |  |  |  | | --- | --- | | |  | | --- | |  | |  |  |  |  | | --- | --- | --- | | |  | | --- | | [https://gallery.mailchimp.com/18656ef6df14c935d4d9192ee/images/a262c3e6-427a-4dc5-ade8-719bb9cbea9d.png](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=07e97d39ae&e=b04fd2dbfc) | | Join the ROHM Group at APEC 2016! Where we will be showcasing our latest power technologies and solutions in 5 key areas: Gate Drivers, SiC, Digital Power, Power Management, and Hybrid MOS. ROHM will also be highlighting digital power solutions from Powervation, the latest addition to the ROHM Group, including its DigiBuck™ series of integrated 40A buck regulators ideal for POL applications along with an intelligent digital PWM controller for DDR4 VDDQ and Intel® SoC processor core rails. | |  |  |  | | --- | --- | | |  | | --- | |  | |  |  |  | | --- | --- | | |  | | --- | | ROHM Design Tool ROHM has just released a new design tool! The ROHM AC/DC Designer easily supports your circuit designs. It searches parameters based on conditions that you enter in the Parametric Search. This tool can help you find the exact part or range of parts that match the specifications you need for your next design. | |  |  |  | | --- | --- | | |  | | --- | | [**ROHM AC/DC Designer Tool**](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=9d621f178c&e=b04fd2dbfc) | |  |  |  | | --- | --- | | |  | | --- | |  | |  |  |  | | --- | --- | | |  | | --- | | Design a Flyback Converter Using ROHM’s 1700V SiC FET and QR Controller https://gallery.mailchimp.com/18656ef6df14c935d4d9192ee/images/fd77240e-377b-40c1-a2c3-64ff1db3dc16.jpg  Combining ROHM’s [BD7682FJ-LB](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=8f3b7a001f&e=b04fd2dbfc) low-noise quasi-resonant controller optimized for SiC drive with the [SCT2H12NZ](http://eetechmedia.us8.list-manage2.com/track/click?u=18656ef6df14c935d4d9192ee&id=c3c39ba985&e=b04fd2dbfc) 1700V SiC MOSFET makes it easy to configure AC/DC and DC/DC flyback converters with minimal external components that reduce total cost, design load, and footprint over discrete solutions. A built-in gate drive circuit maximizes SiC MOSFET performance, while quasi-resonant operation delivers lower noise and higher efficiency vs conventional PWM, providing significant power savings. In addition, multiple built-in protection functions (i.e. soft start, overvoltage, brownout, overcurrent, burst-mode, and overload protection) ensure continuous operation and improve reliability. Ideal for switch-mode and auxiliary power supplies. | |  |  |  | | --- | --- | | |  | | --- | | [**Product Page for BD7682FJ**](http://eetechmedia.us8.list-manage2.com/track/click?u=18656ef6df14c935d4d9192ee&id=c97b91634a&e=b04fd2dbfc) | |  |  |  | | --- | --- | | |  | | --- | | [**Buy Now / Sample BD7682FJ**](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=bd3d224695&e=b04fd2dbfc) | |  |  |  | | --- | --- | | |  | | --- | | [**Product Page for SCT2H12NZ**](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=40e3b01853&e=b04fd2dbfc) | |  |  |  | | --- | --- | | |  | | --- | | [**Buy Now / Sample SCT2H12NZ**](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=5527a61397&e=b04fd2dbfc) | |  |  |  | | --- | --- | | |  | | --- | |  | |  |  |  | | --- | --- | | |  | | --- | | 48V Buck DC/DC Converter ROHM's [BD51180TL](http://eetechmedia.us8.list-manage1.com/track/click?u=18656ef6df14c935d4d9192ee&id=0db123dbdf&e=b04fd2dbfc) synchronous buck converter delivers 3.3V or 5V output from 48V input (at 2MHz) and features a breakthrough minimum ON time of only 20ns – the lowest in the world. In addition, current mode control simplifies phase compensation, and the expanded input range makes it ideal for the 48V battery market. Offered in a compact high heat dissipation VQFN package. | | |
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| |  |  | | --- | --- | | |  | | --- | |  | |  |  |  | | --- | --- | | |  | | --- | | High Power Metal Plate Type Shunt Resistors https://gallery.mailchimp.com/18656ef6df14c935d4d9192ee/images/c7b95be4-3935-4a3f-a65a-64883fcef545.jpg  ROHM now offers a new lineup of high power ultra-low-ohmic shunt resistors ideal for current detection in applications with increased power requirements, such as automotive systems and industrial equipment. The PSR series consists of the [PSR400](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=ab14eb71ab&e=b04fd2dbfc), which is rated at 4W, and the [PSR500](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=0ff5f1eace&e=b04fd2dbfc), guaranteed up to 5W. A high-performance resistive alloy is utilized to ensure superior TCR, even in the ultra-low-ohmic region (0.2mΩ), while original precision welding technology makes it possible to achieve high rated power (5W) with superior measurement accuracy. | |  |  |  | | --- | --- | | |  | | --- | | [**Specs and Features**](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=88128bcfe5&e=b04fd2dbfc) | |  |  |  | | --- | --- | | |  | | --- | | [**More Information**](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=5d5d8d3715&e=b04fd2dbfc) | |  |  |  | | --- | --- | | |  | | --- | |  | |  |  |  | | --- | --- | | |  | | --- | | ****High Efficiency Power Management IC for Freescale’s i.MX 6SoloLite Processor**** ROHM’s [BD71805MWV](http://eetechmedia.us8.list-manage.com/track/click?u=18656ef6df14c935d4d9192ee&id=a2ba70673f&e=b04fd2dbfc) utilizes power supply technology cultivated for mobile applications to optimize circuit configuration for the i.MX 6SoloLite processor. This significantly reduces power consumption during both standby and normal operation, prolonging battery life considerably. In addition, industry-leading analog technology is utilized to achieve a power conversion efficiency of over 82% and reduce standby current by 45%, while an RTC (Real Time Clock) function provides clock and calendar management without driving the main processor, increasing operating time. A li-ion battery charger with 30V input overvoltage protection is also built in that eliminates the need for an external IC, decreasing footprint by 20% and contributing to end-product miniaturization. | | |
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