

Step-Down Regulators Integrate Low-On-Resistance Switches

Maxim Integrated Products introduces its MAX8833/MAX8855 step-down regulators that operate from 3.3 V or 2.5 V inputs, provide dual 3 A or dual 5 A outputs (respectively), and integrate switches that maximize space savings. The use of internal MOSFETs enables these devices to operate efficiently from a low input voltage which is not possible with large, discrete MOSFETs. Internal MOSFETs provide better performance in low-voltage applications compared to their discrete counterparts which require higher voltages for full enhancement. With low on-resistances of 49 mΩ and 37 mΩ, respectively, the devices are capable of providing efficiencies in the mid-90 percent range while switching above 1 MHz. The low on-resistance, high efficiency and small package of these devices make them suitable for DDR power supplies, processors that require more than one rail and high-end enterprise equipment.

www.maxim-ic.com
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