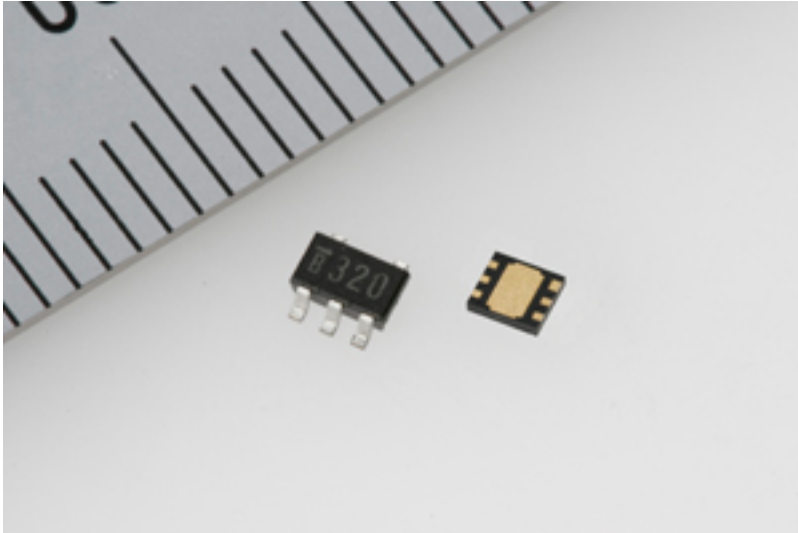


Step-up synchronous PFM DC/DC converter includes load disconnect and input bypass



Torex Semiconductor's XC9140

Series synchronous DC/DC converters support ceramic capacitors and have an internal 0.6Ω (typ.) N-channel driver transistor and an internal 0.65Ω (typ.) P-channel synchronous switch transistor. PFM control enables a low quiescent current, making these products appropriate for portable devices that require high efficiency. When the output voltage is 3.3 V and the load current is 1 mA, startup from an input voltage of $V_{IN} = 0.9$ V is possible which means that the XC9140 can be used in applications that start from a single alkaline or nickel-metal hydride battery. The output voltage can be set from 1.8 V to 5.0 V (± 2.0 percent) in steps of 0.1 V. The DC/DC converter features a load disconnect function to break continuity between the input and output at shutdown (XC9140A), and also a bypass mode function to maintain continuity between the input and output (XC9140C).

Torex Semiconductor

949-261-2022, www.torex.co.jp [1]

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<http://www.ecnmag.com/products/2012/08/step-synchronous-pfm-dc/dc-converter-includes-load-disconnect-and-input-bypass>

Links:

[1] <http://www.torex.co.jp>