

MIC94300/MIC94310

200mA LDO with Ripple Blocker™ Technology

APPLICATIONS



TABLET/PC/NOTEBOOK
COMPUTERS



SECURITY AND SURVEILLANCE
CAMERAS



DIGITAL STILL AND
VIDEO CAMERAS



BARCODE SCANNERS

ADDITIONAL APPLICATIONS

MEDICAL IMAGING

VIDEO CONFERENCING

SMARTPHONE CAMERAS
AND RF POWER

GLOBAL POSITIONING SYSTEMS
(GPS)

AUTOMOTIVE AND INDUSTRIAL
APPLICATIONS

BENEFITS

» High Performance

FEATURES

- Ripple Blocker™ active filter technology
- Active noise rejection over a wide frequency band
 - 80dB of PSRR at 1kHz
 - 60dB of PSRR at 5MHz

» Versatile

- MIC94300 voltage follower with fixed dropout of 170mV
- MIC94310 LDO with 40mV dropout voltage at 200mA

» Ultra-Small Integrated Solution

- Ultra-small 0.88mm x 0.88mm 4-bump WLCSP package
- 200mA output current



EVEN ELECTRONICS WORK BETTER WHEN
THEY HAVE PEACE AND QUIET

MIC94300/MIC94310

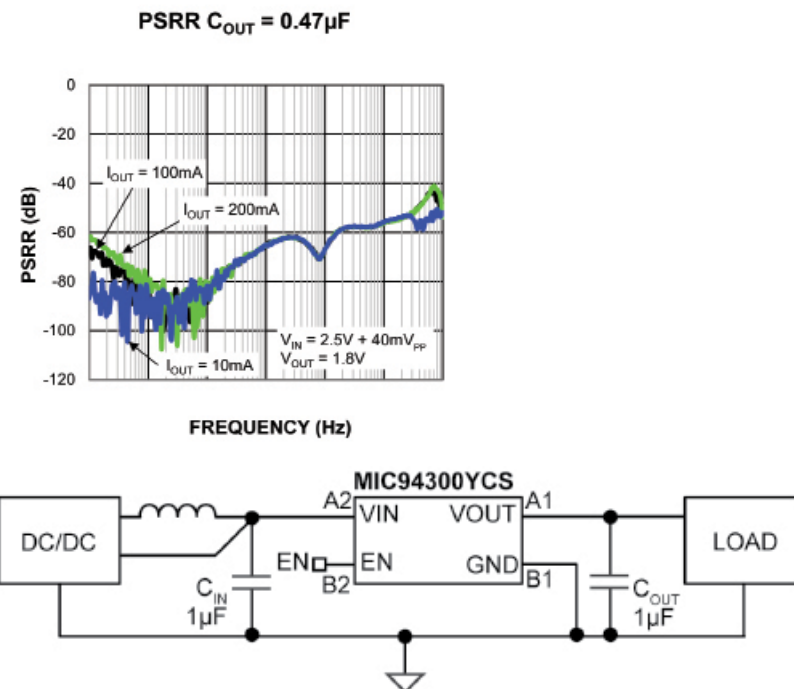
DESCRIPTION

The MIC94300 integrated load switch and MIC94310 DC-to-DC regulator incorporate Micrel's Ripple Blocker™ active filter technology to provide high-frequency ripple attenuation (switching noise rejection) for applications where switching noise cannot be tolerated by sensitive downstream circuits.

The MIC94300/MIC94310 are rated at up to 200mA and operate from an input voltage of 1.8V to 3.6V, allowing true load switching of low-voltage power rails in any electronic device. The MIC94310 offers ultra-low dropout (20mV typical). These products also include linear current limiting and thermal shutdown to ensure full protection from damage due to fault conditions.

Both devices are offered in a 0.88mm x 0.88mm 4-bump CSP or 4-pin 1.2mm x 1.6mm Thin MLF® package; the MIC94310 is also offered in an SOT-23 package. In addition, these devices have a junction operating temperature range of -40°C to +125°C.

TYPICAL PERFORMANCE



ORDERING INFORMATION

Part	Package	Lead Finish
MIC94300YCS	0.88mm x 0.88mm WLCSP	Pb-Free
MIC94300YMT	1.2mm x 1.6mm Thin MLF®	Pb-Free
MIC94310YCS	0.88mm x 0.88mm WLCSP	Pb-Free
MIC94310YMT	1.2mm x 1.6mm Thin MLF®	Pb-Free
MIC94310YM5	SOT-23	Pb-Free

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