



Newsletter 05/2009

Dear Customer,

welcome to the May 2009 issue of Rohm's Email Newsletter. If you want to change your contact details or if you do not want to receive the Newsletter anymore please use the link at the end of this page.

Class D Speaker Amplifier with On-board DSP Improves Audio Fidelity and Contributes to Increased Miniaturization

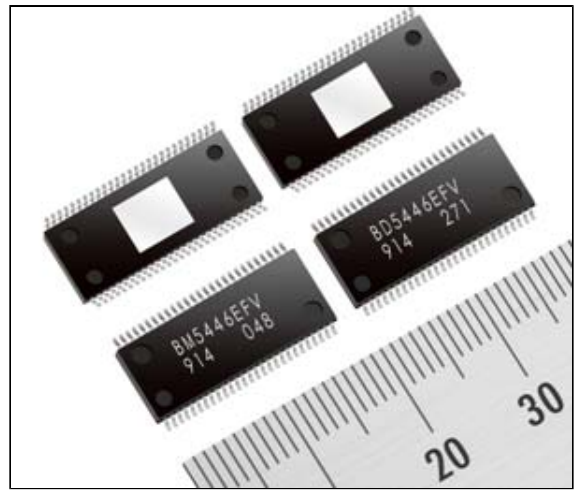
ROHM has announced the development of two Class D speaker amplifiers for LCD and panel TVs, mini-component systems, powered speakers, and gaming devices. The BM5446EFV (with on-board DSP) and BD5446EFV (without DSP) feature 20W + 20W output and digital input compatibility, preventing audio deterioration caused by D/A converters normally utilized in analog systems. The gain can be fine tuned (BM5446EFV: 16 steps, BD5446: 8 steps), enabling optimization of the S/N ratio, and analog audio output provides support for headphones as well as devices requiring line output.

Key Features

- (1) On-board audio DSP optimized for volume and tone adjustment in flat panel TVs (BM5446EFV only)
- (2) Supports direct two-line digital audio signal input
- (3) Built-in feedback circuit ensures high PSRR characteristics and high sound quality
- (4) Reduced popping noise during power ON/OFF
- (5) Unique software swapping technology utilized for high quality audio muting and smooth volume adjustment
- (6) Built-in analog output allows selection from two-line digital audio input, independent of speaker output

- (7) Integrated S/PDIF (optical digital) output (BM5446EFV only)
- (8) Compatible with a single power supply: $V_{cc} = 10V$ to $26V$
- (9) Equipped with heat sink, enabling $20W + 20W$ output
- (10) Multiple protection circuits built-in: thermal shutdown, low voltage protection circuit, overcurrent protection, speaker/clock stop protection

[More Information on www.rohmeurope.com](http://www.rohmeurope.com)

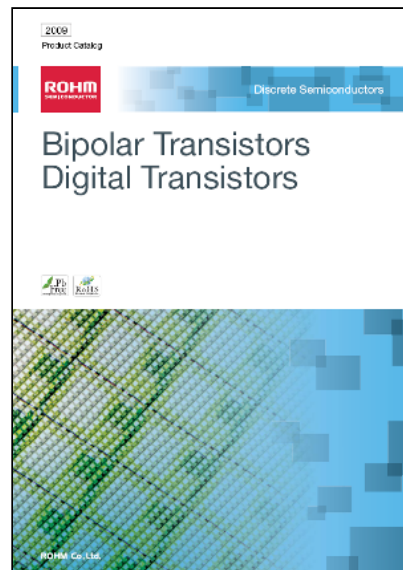


Bipolar Transistors - Digital Transistors Product Catalog 2009

ROHM bipolar transistors were developed to be energy efficient, highly reliable and compact. A wide range of products are offered, from small-signal and low profile models to high power products.

Digital transistors, pioneered by ROHM incorporate transistors for digital circuits. The broad lineup includes space-saving, ultra-compact types available in a range of internal resistance configurations.

[More Information on www.rohmeurope.com](http://www.rohmeurope.com)



MOSFETs Product Catalog 2009

ROHM offers a wide selection of MOSFET's, ranging from ultra-low ON-resistance products utilizing micro-process technology, high efficiency/breakdown units for switching applications and high power components optimized for commercial/industrial systems.

[More Information on www.rohmeurope.com](http://www.rohmeurope.com)



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