




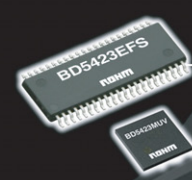
Industry's highest efficiency and lowest heat generation Class D Speaker Amps

iPWM™

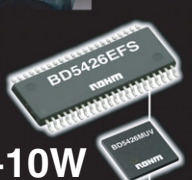
17W+17W
for Home Theater Speakers
NEW BD5431EFS




17W+17W
for TVs and Consumer Audio
NEW BD5423EFS
NEW BD5423MUV




10W+10W
for TVs, Consumer Audio, and PCs
NEW BD5426EFS
NEW BD5426MUV




2.5W (Monaural)
for Mobile Phones and Notebook PCs
NEW BD5460GUL
NEW BD5461GUL



5W+5W
for PCs, USB Speakers, and Electric Musical Instruments
NEW BD5413EFV



Class D Speaker Amp. Family








Intelligent PWM™ and iPWM™ are
Utilizing advanced PWM technology featuring intelligent operation, ROHM offers Class D audio amps, stepping/DC motor drivers, LED drivers, DC/DC converters, and a host of other ICs optimized for virtually any need.

Specifically developed for high fidelity applications requiring greater compactness and energy efficiency

ROHM continues to meet customer requirements for high efficiency and low heat generation with its lineup of Class D Speaker Amps. The new products feature unprecedented reliability, making them ideal for current and next-generation products of all types, including flat panel TVs and mobile phones.

Lineup Select the ideal solution based on set requirements

Applications	Part No.	Output (W)	Features	Input Method	Output Method	Supply Voltage (V)	Speaker Load (Ω)	Voltage Gain (dB)	Package
LCD TVs Plasma TVs Home Audio Desktop PCs	BD5423EFS BD5423MUV	17W+17W (12V, 4Ω)	Pin Compatible Output power limiting function Soft mute Master/Slave functionality High reliability design	Analog	BTL	10.0 to 16.5	4 to 16	28	 HTSSOP-A44 VQFN048V7070
	BD5426EFS BD5426MUV	10W+10W (13V, 8Ω)					6 to 16		 HTSSOP-A44 VQFN048V7070
Gaming devices	BD5431EFS	17W+17W (12V, 4Ω)	Dual differential analog/ PWM input compatibility Soft mute Master/Slave functionality High reliability design	/PWM Differential analog/PWM	BTL	10.0 to 16.5	4 to 16	23.5	 HTSSOP-A44
PC/USB Speakers Electronic Products	BD5413EFV	5W+5W (9V, 6Ω)	Compact surface mount power package Shutdown function Soft mute High reliability design	Analog	BTL	6.0 to 10.5	6 to 16	30	 HTSSOP-B24
Mobile Phones Portable Audio Notebook PCs	BD5460GUL BD5461GUL	2.5W (5V, 4Ω)	Compact Chip Scale Package (CSP) No output filter required - reduces peripheral component quantity Shutdown function	Differential Analog (Single Input)	BTL	2.5 to 5.5	4 to 16	6 (BD5460GUL) 12 (BD5461GUL)	 VCSP50L1 (1.6 x 1.6mm, H=0.55mm)

Excellence in Electronics


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