



New Product
Announcement
PAM8904

18VPP Output Sounder Driver with Auto Standby

The PAM8904 is a piezo sounder driver with integrated charge pump boost converter.

The device is capable of driving a ceramic/piezo sounder with 18Vpp from a 3V power supply. The charge pump can operate in either 1X, 2X and 3X modes.

The boost converter operates at a fixed frequency of 1.0MHz and provides a 9V output with a minimum number of external components. The PAM8904 can drive up to 15nF loading. Its unique drive technology provides small inrush current, low EMI and high efficiency.

The built-in automatic shutdown and wake up, guarantees longer battery life.

The PAM8904 features thermal shutdown, over current protection, over voltage protection and under voltage lock-out.

It is available in a 16pin U-QFN3030 package.



The Diodes Advantage

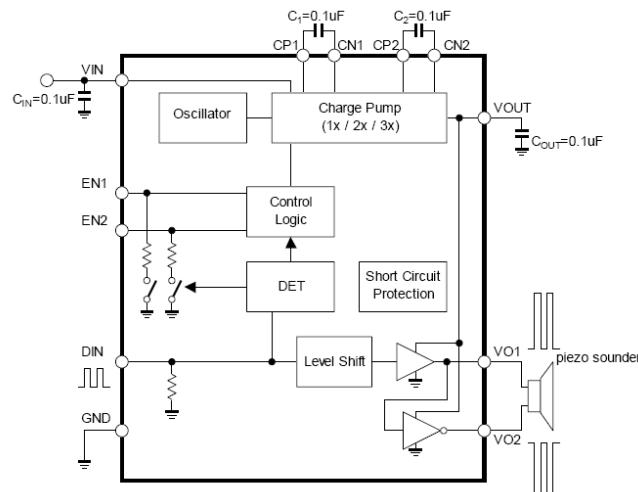
The PAM8904 low quiescent current solution for sounder driver.

- **Up to 18VPP Output**
Bigger sound output
- **1X, 2X and 3X charge-pump selectable**
Three SPL levels selections
- **Automatic Standby and Wake-up Control**
Saves battery power
- **Input signal 20 Hz to 300KHz**
Wider input suitable for different applications
- **No Voltage Cross Output At Shutdown Mode**
No current consumed
- **SO-16 low pin count package**
Small PCB area

Applications

- Health care system
- Alarm clock
- Security devices
- Home appliances

Typical Application:



Diodes Medium Power Class-D Audio Amplifier

Product	Description	VIN(V)	IQ (mA)	η	GAIN (dB)	SNR (dB)	PSRR (dB)	Package
PAM8008	2X3W with DC Vol. Control & PL & Anti-saturation	2.5- 5.5	6	0.89	4 Selection	95	-60	WCSP2x2-16 QFN4x4-20
PAM8010	2X3W with DC Vol. Control & PL & Anti-saturation & Headphone & NR	2.8-5.5	10	0.89	-99	95	-70	SSOP-24 SOP-24
PAM8012	1x3W with PL & Anti-saturation	2.8-5.5	10	0.89	-99	90	-70	CSP1.2x1.2
PAM8006A	2x15W with Power Limit	8.0 - 26	20	0.9	32	100	-60	QFN5x5-32
PAM8610	2x10W with DC Vol. Control	7.0 - 15	20	0.9	-107	95	-60	QFN6x6-40
PAM8615	2x15W with DC Vol. Control	8.0 - 30	25	0.9	-76	95	-60	TSSOP-24
PAM8320	1x15W Mono in BTL	4.5 - 15	15	0.9	24	95	-60	SOP16(EP)
PAM8124	2x15W SE or 1*30W BTL	8.0 - 26	25	0.9	18/24/30/34	95	-60	TSSOP-24
PAM8803	2x3W with Up/Down Vol. Control	2.2 - 5.5	7	0.89	-99	65	-60	SSOP-24
PAM8901/08	25mW CAP-Free HP Driver	2.5 - 5.5	2	--	Adjustable	95	-70	QFN3*3
PAM8902/A	30Vpp Haptai/Piezo Driver	2.5 - 5.5		0.85	Adjustable	95	-70	QFN/CSP
PAM8904	18Vpp Haptai/Piezo sounder Driver	2.3 - 5.0						QFN/3030
PAM8906	20W Power Comparator	7.5 - 28		0.9	Adjustable	95	-60	TSSOP24

Ordering Information

Device	Packaging	Part mark	Reel size	Tape width	Quantity
PAM8904JER	U-QFN3030-16L	PAM8904	7"	8mm	3000