



# THE DATASHEET OF PAM8406DR



## Description

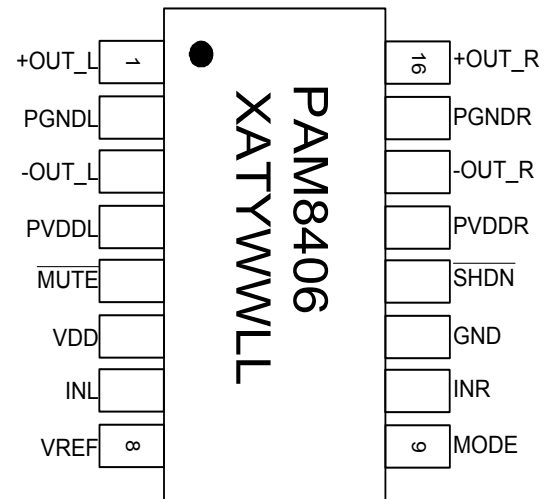
The PAM8406 is a 5W audio amplifier with an alternative option between Class-D and Class-AB output, which makes the device very ideal for efficiency-EMI compatible applications.

The PAM8406's low THD+N and high SNR allow it to achieve high-quality sound reproduction. The device's fully differential output with new filter-less architecture (Class-D Mode) allows the device to drive the speaker directly, requiring no low-pass output filters and DC blocking capacitors, thus saving system cost and PCB area.

The device has an efficiency of up to 90%. It can extend battery life, which is ideal for portable applications. It is fully protected against faults with short-circuit protection and thermal protection.

The PAM8406 is available in the SOP-16L/SOP-16(EP) package.

## Pin Assignments



## Features

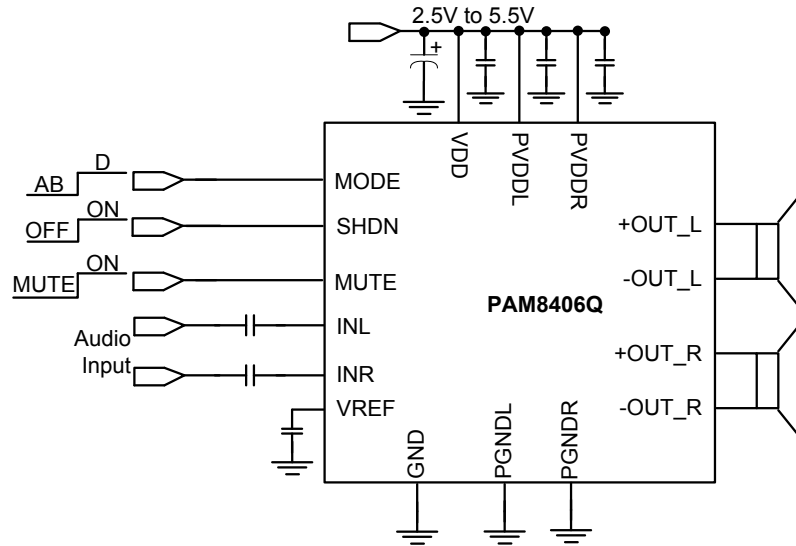
- Alternative Output: Class-D or Class-AB
- 5W Output at 10% THD with a 2Ω Load and 5V Power Supply at Class-D Mode
- 3W Output at 10% THD with a 4Ω Load and 5V Power Supply
- Filterless, Low Quiescent Current and No EMI
- Low THD+N at Fully Output Range
- Superior Low Noise
- Efficiency up to 90% with Class-D Mode
- No Pop At Turn-On/Off
- Full Short-Circuit Protection With Auto Recovery
- Thermal Shutdown
- Few External Components to Save Space and Cost
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen- and Antimony-Free. "Green" Device (Note 3)**
- **For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please [contact us](mailto:contact@diodes.com) or your local Diodes representative. <https://www.diodes.com/quality/product-definitions/>**

## Applications

- LCD TVs
- Multimedia Speakers
- AM/FM Systems
- DABs

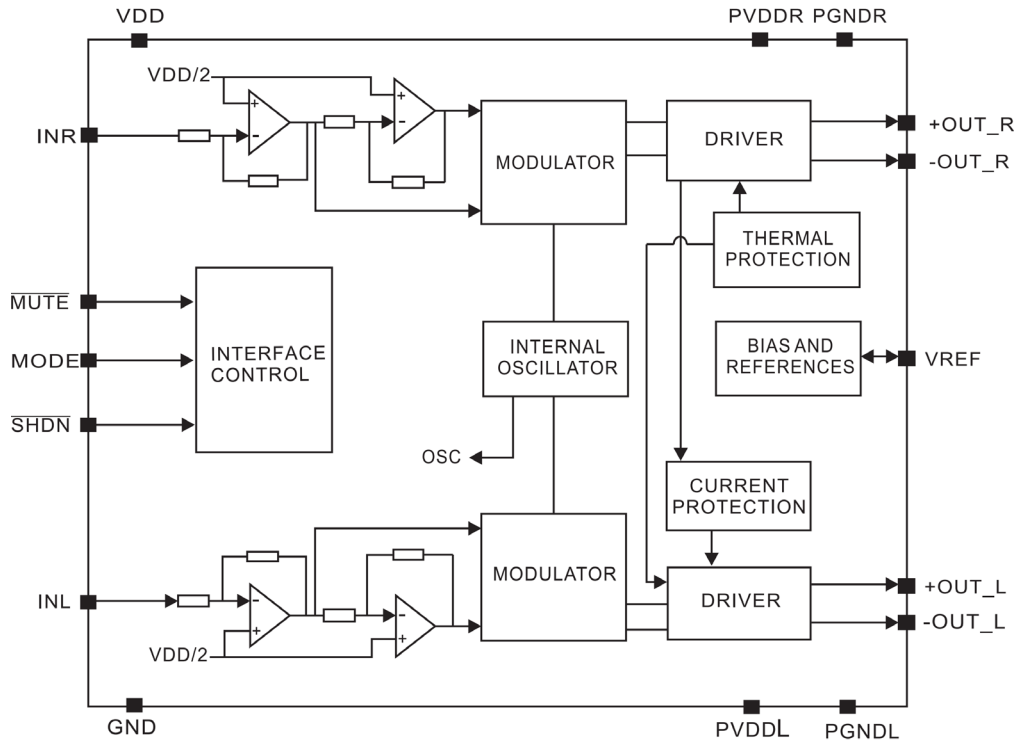
- Notes:
1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
  2. See <https://www.diodes.com/quality/lead-free/> for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
  3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

**Typical Applications Circuit**



**Pin Descriptions**

Pin Number	Pin Name	Function
1	+OUT_L	Left Channel Positive Output
2	PGNDL	Power GND
3	-OUT_L	Left Channel Negative Output
4	PVDDL	Power VDD
5	MUTE	Mute Control Input (active low)
6	VDD	Analog VDD
7	INL	Left Channel Input
8	VREF	Internal analog reference, connect a bypass capacitor from VREF to GND.
9	MODE	High: Class-D; Low: Class-AB
10	INR	Right Channel Input
11	GND	Analog GND
12	SHDN	Shutdown Control Input (active low)
13	PVDDR	Power VDD
14	-OUT_R	Right Channel Negative Output
15	PGNDR	Power GND
16	+OUT_R	Right Channel Positive Output

**Functional Block Diagram**

**Absolute Maximum Ratings** (@  $T_A = +25^\circ\text{C}$ , unless otherwise specified.)

These are stress ratings only and functional operation is not implied. Exposure to absolute maximum ratings for prolonged time periods may affect device reliability. All voltages are with respect to ground.

Parameter	Rating	Unit
Supply Voltage	6.0	V
Input Voltage	-0.3 to $V_{DD} + 0.3V$	
Operation Temperature Range	-40 to +85	°C
Maximum Junction Temperature	150	
Operation Junction Temperature	-40 to +125	
Storage Temperature	-65 to +150	
Soldering Temperature	300, 5 sec	

**Recommended Operating Conditions** (@  $T_A = +25^\circ\text{C}$ , unless otherwise specified.)

Parameter	Rating	Unit
Supply Voltage Range	2.5 to 5.5	V
Operation Temperature Range	-40 to +85	°C
Junction Temperature Range	-40 to +125	°C

**Thermal Information**

Parameter	Package	Symbol	Max	Unit
Thermal Resistance (Junction to Ambient)	SOP-16	$\theta_{JA}$	110	°C/W
Thermal Resistance (Junction to Case)	SOP-16	$\theta_{JC}$	23	

**Electrical Characteristics** (@  $T_A = +25^\circ\text{C}$ ,  $V_{DD} = 5\text{V}$ , Gain = 24dB,  $R_L = 8\Omega$ , both Class-AB and D mode, unless otherwise specified.)

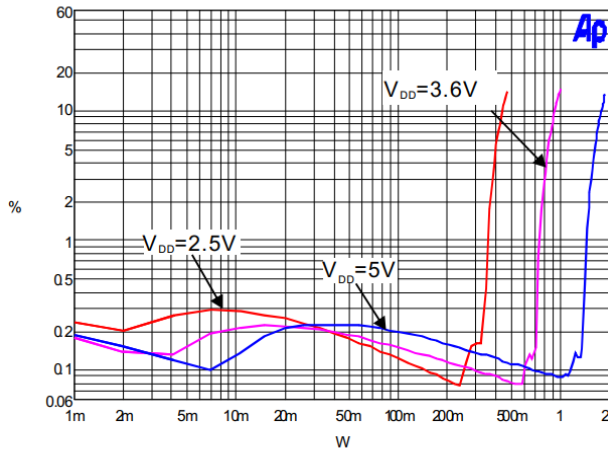
Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
$V_{DD}$	Supply Voltage		2.5		5.5	V
$P_O$	Output Power	THD+N = 10%, f = 1KHz, $R_L = 2\Omega$ (Class-D)	$V_{DD} = 5.0\text{V}$	5.0		W
			$V_{DD} = 3.6\text{V}$	2.6		
			$V_{DD} = 2.5\text{V}$	1.3		
		THD+N = 1%, f = 1KHz, $R_L = 2\Omega$ (Class-D)	$V_{DD} = 5.0\text{V}$	4.0		W
			$V_{DD} = 3.6\text{V}$	2.0		
			$V_{DD} = 2.5\text{V}$	1.0		
		THD+N = 10%, f = 1KHz, $R_L = 4\Omega$	$V_{DD} = 5.0\text{V}$	3.14		W
			$V_{DD} = 3.6\text{V}$	1.5		
			$V_{DD} = 2.5\text{V}$	0.76		
		THD+N = 1%, f = 1KHz, $R_L = 4\Omega$	$V_{DD} = 5.0\text{V}$	2.55		W
			$V_{DD} = 3.6\text{V}$	1.45		
			$V_{DD} = 2.5\text{V}$	0.63		
		THD+N = 10%, f = 1KHz, $R_L = 8\Omega$	$V_{DD} = 5.0\text{V}$	1.8		W
			$V_{DD} = 3.6\text{V}$	0.92		
			$V_{DD} = 2.5\text{V}$	0.44		
		THD+N = 1%, f = 1KHz, $R_L = 8\Omega$	$V_{DD} = 5.0\text{V}$	1.6		W
			$V_{DD} = 3.6\text{V}$	0.76		
			$V_{DD} = 2.5\text{V}$	0.36		
THD+N	Total Harmonic Distortion Plus Noise	$V_{DD} = 5.0\text{V}$ , $P_O = 0.1\text{W}$ to $1\text{W}$ , $R_L = 8\Omega$	f = 1kHz	0.15	%	
		$V_{DD} = 3.6\text{V}$ , $P_O = 0.05\text{W}$ to $0.5\text{W}$ , $R_L = 8\Omega$		0.11		
		$V_{DD} = 5.0\text{V}$ , $P_O = 0.1\text{W}$ to $2\text{W}$ , $R_L = 4\Omega$	f = 1kHz	0.15	%	
		$V_{DD} = 3.6\text{V}$ , $P_O = 0.05\text{W}$ to $2\text{W}$ , $R_L = 4\Omega$		0.11		
		$V_{DD} = 5.0\text{V}$ , $P_O = 0.1\text{W}$ to $2\text{W}$ , $R_L = 2\Omega$ (Class-D)	f = 1kHz	0.15	%	
		$V_{DD} = 3.6\text{V}$ , $P_O = 0.05\text{W}$ to $1\text{W}$ , $R_L = 2\Omega$ (Class-D)		0.11		
$G_V$	Closed Loop Gain	$V_{DD} = 3\text{V}$ to $5\text{V}$		24	dB	
PSRR	Power Supply Ripple Rejection	$V_{DD} = 5.0\text{V}$ , Inputs AC-Grounded with $C_{IN} = 0.47\mu\text{F}$	f = 100Hz	-70	dB	
			f = 1kHz	-65		
$C_S$	Crosstalk	$V_{DD} = 5.0\text{V}$ , $P_O = 0.5\text{W}$ , $R_L = 8\Omega$ , $G_V = 24\text{db}$	f = 1kHz	-95	dB	
SNR	Signal-to-Noise Ratio	$V_{DD} = 5.0\text{V}$ , THD = 1%, $G_V = 24\text{db}$	f = 1kHz	90	dB	
$V_N$	Output Noise	$V_{DD} = 5.0\text{V}$ , Inputs AC-Grounded	A-Weighting	100	$\mu\text{V}$	
			No A-Weighting	150		
$\eta$	Efficiency	$R_L = 8\Omega$ , THD = 10%	Class D Mode f = 1kHz	90	%	
		$R_L = 4\Omega$ , THD = 10%		87		
		$R_L = 2\Omega$ , THD = 10%		80		
$I_Q$	Quiescent Current	$V_{DD} = 5.0\text{V}$	No Load	10	mA	
		$V_{DD} = 3.6\text{V}$		8		
		$V_{DD} = 2.5\text{V}$		6		
	Quiescent Current	$V_{DD} = 5.0\text{V}$	No Load	25	mA	
		$V_{DD} = 3.6\text{V}$		15		
		$V_{DD} = 2.5\text{V}$		10		

**Electrical Characteristics** (cont.) (@  $T_A = +25^\circ\text{C}$ ,  $V_{DD} = 5\text{V}$ , Gain = 24dB,  $R_L = 8\Omega$ , both Class-AB and D mode, unless otherwise specified.)

Symbol	Parameter	Test Conditions		Min	Typ	Max	Units
$I_{MUTE}$	Muting Current	$V_{DD} = 5.0\text{V}$	$V_{MUTE} = 0.3\text{V}$		2.4		mA
$I_{SD}$	Shutdown Current	$V_{DD} = 2.5\text{V to } 5.5\text{V}$	$V_{SD} = 0.3\text{V}$		< 1		$\mu\text{A}$
$R_{DS(ON)}$	Static Drain-to-Source On-State Resistor	$I_{DS} = 500\text{mA}$ , $V_{GS} = 5\text{V}$	PMOS		180		m $\Omega$
			NMOS		140		
$f_{SW}$	Switching Frequency	$V_{DD} = 2.5\text{V to } 5.5\text{V}$	Class-D		250		kHz
$V_{OS}$	Output Offset Voltage	Input AC-GND, $V_{DD} = 5.0\text{V}$			10		mV
$V_{IH}$	Enable Input High Voltage	$V_{DD} = 5.0\text{V}$		1.4			V
$V_{IL}$	Enable Input Low Voltage	$V_{DD} = 5.0\text{V}$				0.4	
$V_{IH}$	MUTE Input High Voltage	$V_{DD} = 5.0\text{V}$		1.4			V
$V_{IL}$	MUTE Input Low Voltage	$V_{DD} = 5.0\text{V}$				0.4	
$V_{IH}$	MODE Input High Voltage	$V_{DD} = 5.0\text{V}$		1.4			V
$V_{IL}$	MODE Input Low Voltage	$V_{DD} = 5.0\text{V}$				0.4	
OTP	Overtemperature Protection	No Load, Junction Temperature	$V_{DD} = 5.0\text{V}$		150		$^\circ\text{C}$
OTH	Overtemperature Hysteresis				30		

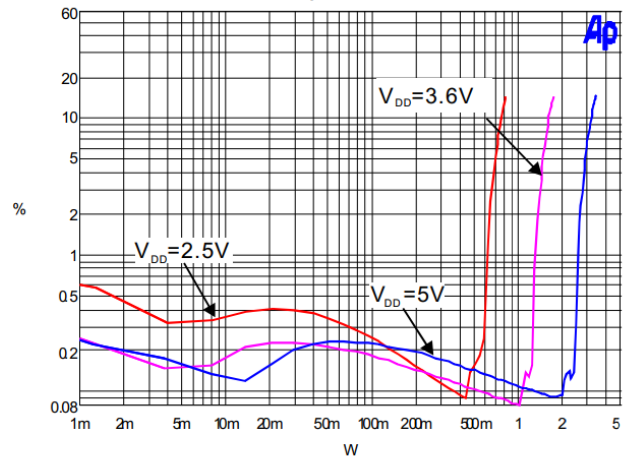
**Typical Performance Characteristics** (@  $T_A = +25^\circ\text{C}$ ,  $V_{DD} = 5\text{V}$ , Gain = 24dB,  $R_L = 8\Omega$ , both Class-AB and D mode, unless otherwise specified.)

1. THD+N vs Output Power



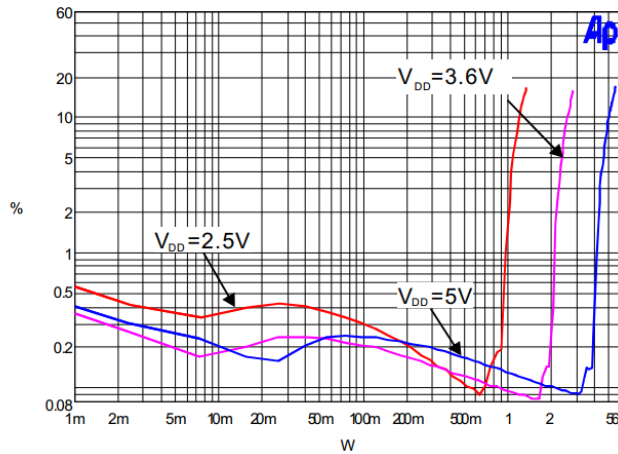
Class D,  $R_L=8\Omega$ ,  $f=1\text{kHz}$

2. THD+N vs Output Power



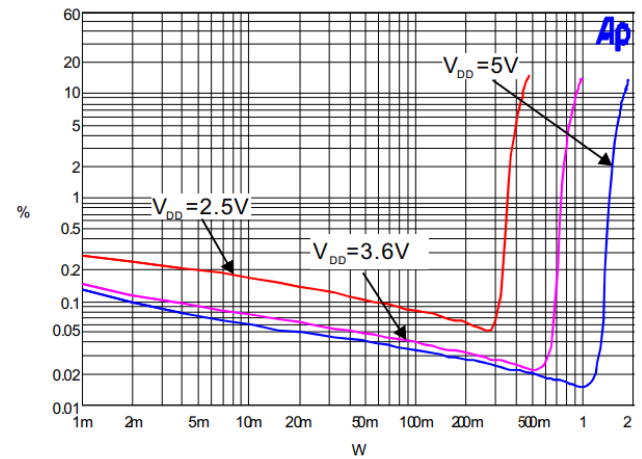
Class D,  $R_L=4\Omega$ ,  $f=1\text{kHz}$

3. THD+N vs Output Power



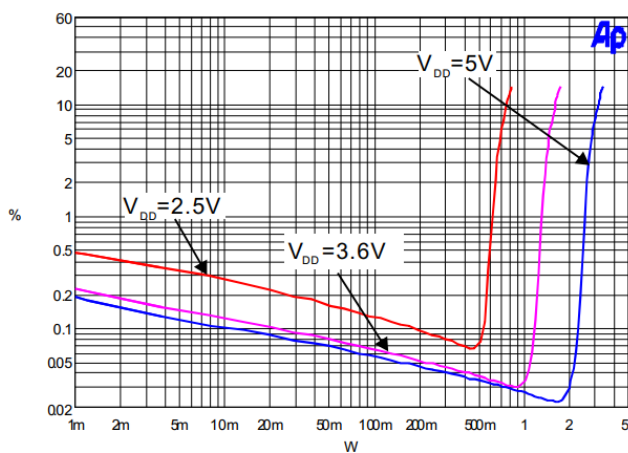
Class D,  $R_L=2\Omega$ ,  $f=1\text{kHz}$

4. THD+N vs Output Power



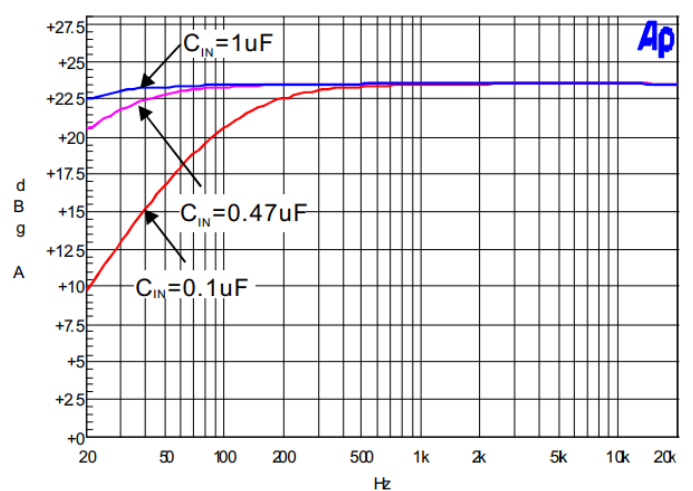
Class AB,  $R_L=8\Omega$ ,  $f=1\text{kHz}$

5. THD+N vs Output Power



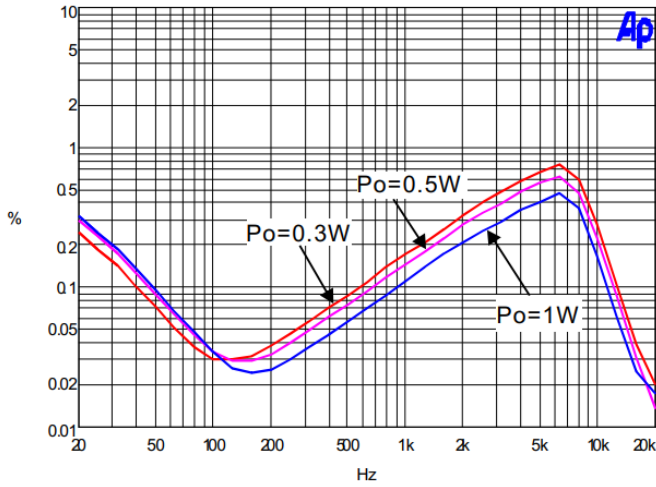
Class AB,  $R_L=4\Omega$ ,  $f=1\text{kHz}$

6. Frequency Response

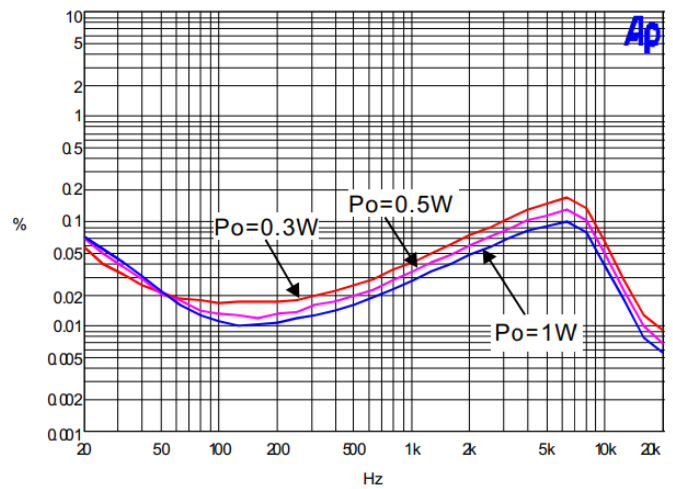


**Typical Performance Characteristics** (cont.) (@  $T_A = +25^\circ\text{C}$ ,  $V_{DD} = 5\text{V}$ , Gain = 24dB,  $R_L = 8\Omega$ , both Class-AB and D mode, unless otherwise specified.)

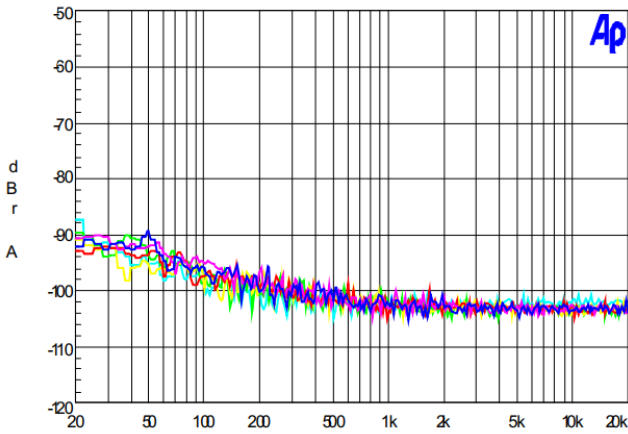
7. THD+N vs Frequency (Class D)



8. THD+N vs Output Power (Class AB)

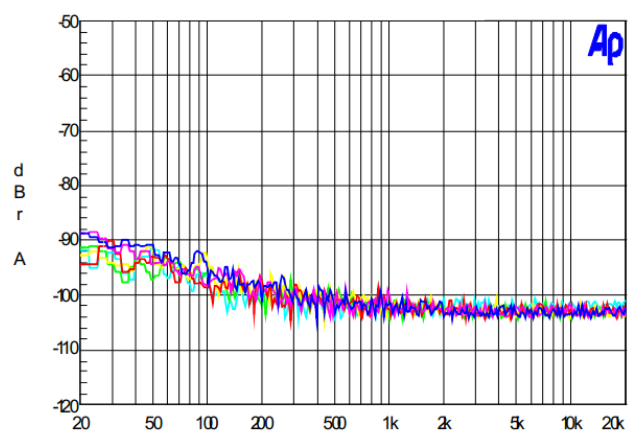


9. Noise Floor (Class D)



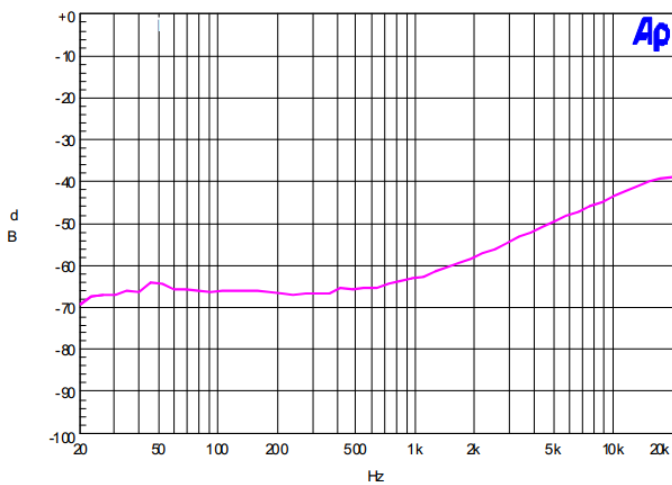
$R_L = 4\Omega, V_{in} = 2.5\text{V}/3.3\text{V}/3.6\text{V}/4.2\text{V}/5\text{V}/5.5\text{V}$

10. Noise Floor (Class AB)

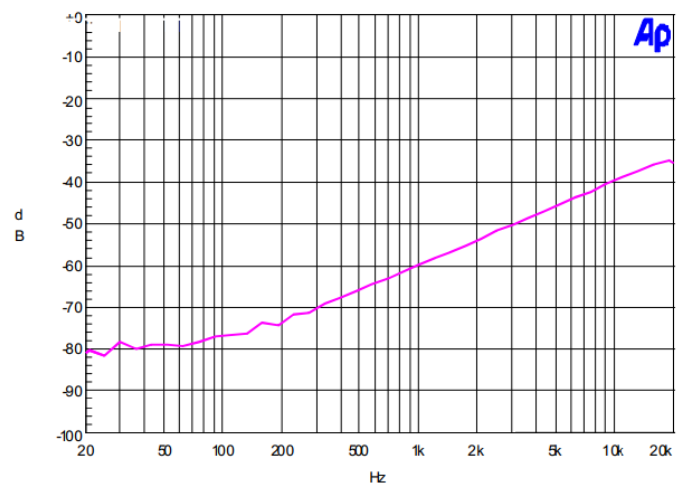


$R_L = 4\Omega, V_{in} = 2.5\text{V}/3.3\text{V}/3.6\text{V}/4.2\text{V}/5\text{V}/5.5\text{V}$

11. PSRR (Class D)

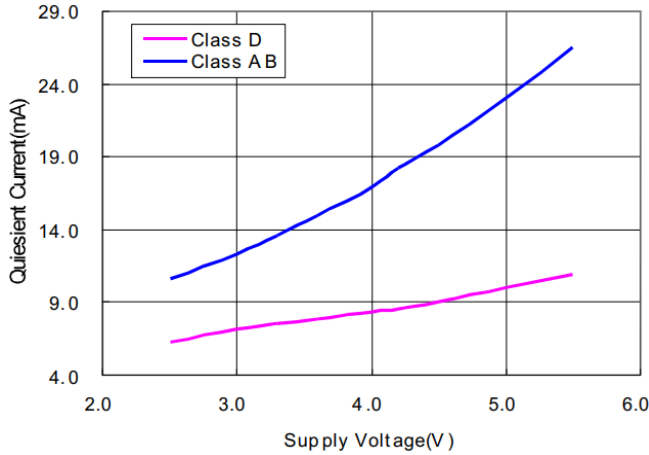


12. PSRR (Class AB)

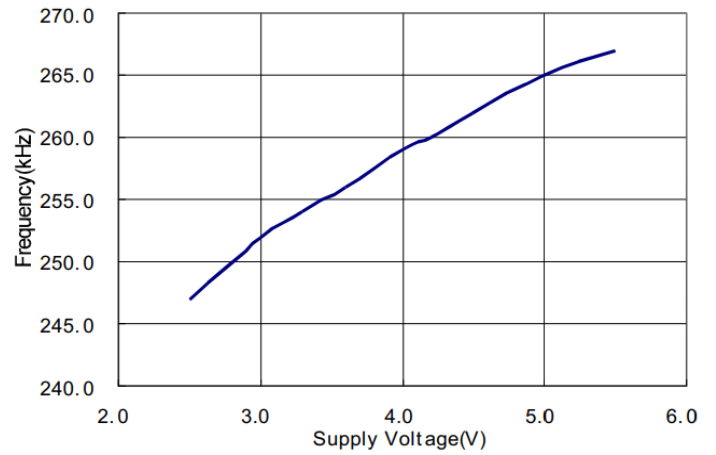


**Typical Performance Characteristics** (cont.) (@  $T_A = +25^\circ\text{C}$ ,  $V_{DD} = 5\text{V}$ , Gain = 24dB,  $R_L = 8\Omega$ , both Class-AB and D mode, unless otherwise specified.)

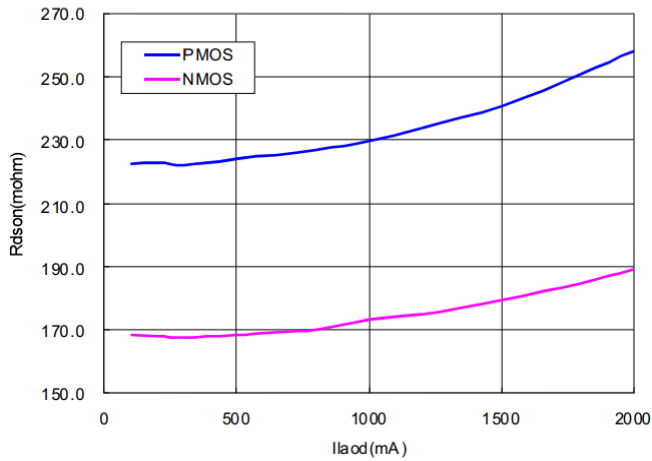
13. Quiescent Current vs Supply Voltage



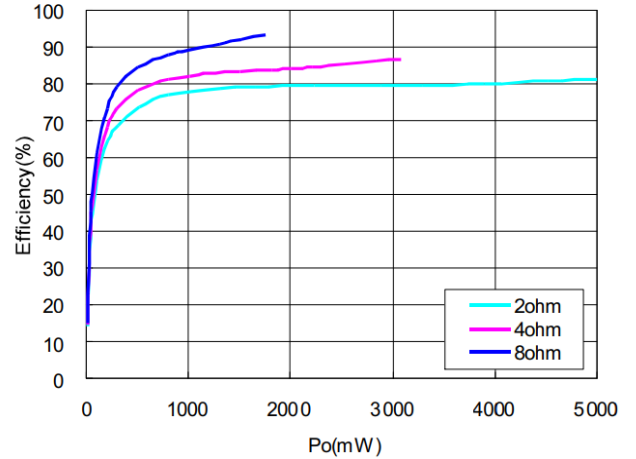
14. Frequency vs Supply Voltage



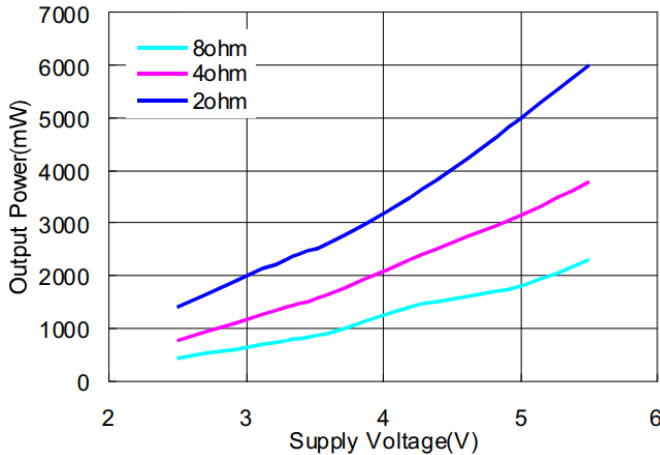
15.  $R_{ds(on)}$  vs  $I_{load}$



16. Efficiency vs Output Power (Class D)



17. Output Power vs Power Supply

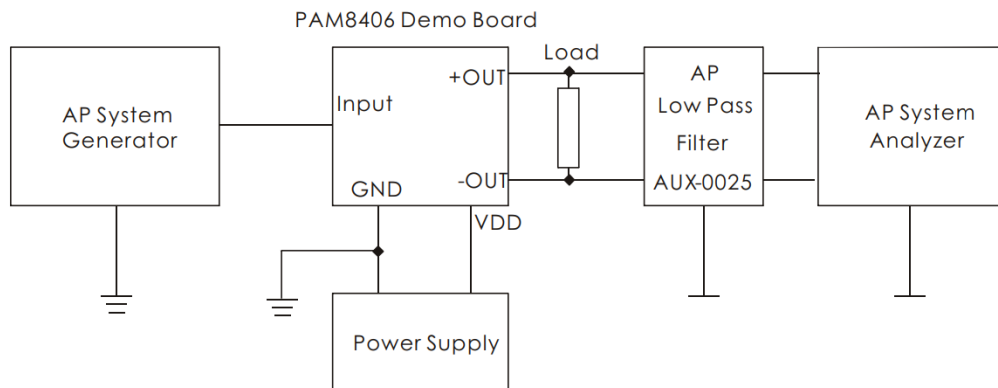


## Application Information

### Application Note

1. When the PAM8406 works in Class-D with LC filters, it should be connected with the speaker before it is powered on, otherwise it will be damaged easily.
2. When the PAM8406 works without LC filters, it's better to add a ferrite chip bead at the outgoing line of speaker for suppressing the possible electromagnetic interference.
3. The recommended operating voltage is 5.5V. When the PAM8406 is powered with four battery cells, it should be noted that the voltage of four new dry or alkaline batteries is over 6.0V, which is higher than its operation voltage and will likely damage the device. Therefore, it is recommended to use either four Ni-MH (Nickel Metal Hydride) rechargeable batteries, or 3 dry or alkaline batteries.
4. One should not make the input signal too large. A large signal can cause the clipping of output signal when increasing the volume. This will damage the device from the PAM8406's big gain.

### Test Setup for Performance Testing



- Notes:
- A. The AP AUX-0025 low pass filter is necessary for Class-D amplifier measurement with AP analyzer.
  - B. Two 22μH inductors are used in series with load resistor to emulate the small speaker for efficiency measurement.

### Maximum Gain

As shown in block diagram (Page 2), the PAM8406 has two internal amplifier stages. The first stage's gain is externally configurable, while the second stage's is internally fixed. The closed-loop gain of the first stage is set by selecting the ratio of  $R_F$  to  $R_I$  while the second stage's gain is fixed at 2x. The output of amplifier 1 serves as the input to amplifier 2, thus the two amplifiers produce signals identical in magnitude, but different in phase by 180°. Consequently, the differential gain for the IC is

$$A_{VD} = 20 \cdot \log [2 \cdot (R_F/R_I)]$$

The PAM8406 sets maximum  $R_F = 142k\Omega$ , minimum  $R_I = 18k\Omega$ ; so the maximum closed-gain is 24dB.

### Mode Selection

When mode pin high, it features Class-D; mode pin low, it's class AB. Mode pin can't be floating.

### Mute Operation

The MUTE pin is an input for controlling the output state of the PAM8406. A logic low on this pin disables the outputs, and a logic high on this pin enables the outputs. This pin may be used as a quick disable or enable of the outputs without a volume fade. Quiescent current is listed in the electrical characteristic table. The MUTE pin can be left floating due to the internal pull-up.

### Shutdown Operation

In order to reduce power consumption while not in use, the PAM8406 contains shutdown circuitry to turn off the amplifier's bias circuitry. This shutdown feature turns the amplifier off when logic low is applied to the SHDN pin. By switching the SHDN pin connected to GND, the PAM8406 supply current draw will be minimized in idle mode. The SHDN pin can be left floating due to the internal pull-up.

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## Application Information (cont.)

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### Power Supply Decoupling

The PAM8406 is a high performance CMOS audio amplifier that requires adequate power supply decoupling to ensure the output THD and PSRR as low as possible. Power supply decoupling affects low frequency response. Optimum decoupling is achieved by using two capacitors of different types targeting to different types of noise on the power supply leads. For higher frequency transients, spikes, or digital hash on the line, a good low equivalent-series resistance (ESR) ceramic capacitor, typically 1.0 $\mu$ F, works best, placing it as close as possible to the device  $V_{DD}$  terminal. For filtering lower frequency noise signals, a large capacitor of 20 $\mu$ F (ceramic) or greater is recommended, placing it near the audio power amplifier.

### Input Capacitor ( $C_I$ )

Large input capacitors are both expensive and space hungry for portable designs. Clearly, a certain sized capacitor is needed to couple in low frequencies without severe attenuation. But in many cases the speakers used in portable systems, whether internal or external, have little ability to reproduce signals below 100Hz to 150Hz. Thus, using a large input capacitor may not increase actual system performance. In this case, input capacitor ( $C_I$ ) and input resistance ( $R_I$ ) of the amplifier form a high-pass filter with the corner frequency determined by equation below,

$$f_c = \frac{1}{2\pi R_I C_I}$$

In addition to system cost and size, click and pop performance is affected by the size of the input coupling capacitor,  $C_I$ . A larger input coupling capacitor requires more charge to reach its quiescent DC voltage (nominally 1/2  $V_{DD}$ ). This charge comes from the internal circuit via the feedback and is apt to create pops upon device enable. Thus, by minimizing the capacitor size based on necessary low frequency response, turn-on pops can be minimized.

### Analog Reference Bypass Capacitor ( $C_{BYP}$ )

The Analog Reference Bypass Capacitor ( $C_{BYP}$ ) is the most critical capacitor and serves several important functions. During start-up or recovery from shutdown mode,  $C_{BYP}$  determines the rate at which the amplifier starts up. The second function is to reduce noise caused by the power supply coupling into the output drive signal. This noise is from the internal analog reference to the amplifier, which appears as degraded PSRR and THD+N.

A ceramic bypass capacitor ( $C_{BYP}$ ) with values of 0.47 $\mu$ F to 1.0 $\mu$ F is recommended for the best THD and noise performance. Increasing the bypass capacitor reduces clicking and popping noise from power on/off and entering and leaving shutdown.

### Undervoltage Lock-Out (UVLO)

The PAM8406 incorporates circuitry designed to detect low supply voltage. When the supply voltage drops to 2.0V or below, the PAM8406 outputs are disabled, and the device comes out of this state and starts to function normally when  $V_{DD} \geq 2.2V$ .

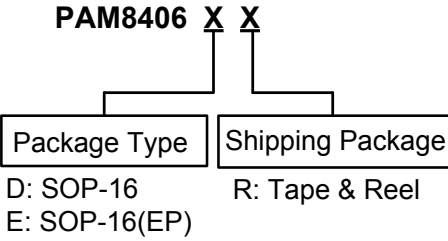
### Short-Circuit Protection (SCP)

The PAM8406 has short-circuit protection circuitry on the outputs to prevent damage to the device when output-to-output or output-to-GND short occurs. When a short circuit is detected on the outputs, the outputs are disabled immediately. When the short is removed, the device activates again.

### Overtemperature Protection

Thermal protection on the PAM8406 prevents the device from damage when the internal die temperature exceeds +150°C. There is a 15°C tolerance on this trip point from device to device. Once the die temperature exceeds the thermal set point, the device outputs are disabled. This is not a latched fault. The thermal fault is cleared once the temperature of the die is reduced by 30°C. This large hysteresis will prevent motor boating sound well and the device begins normal operation at this point without external system intervention.

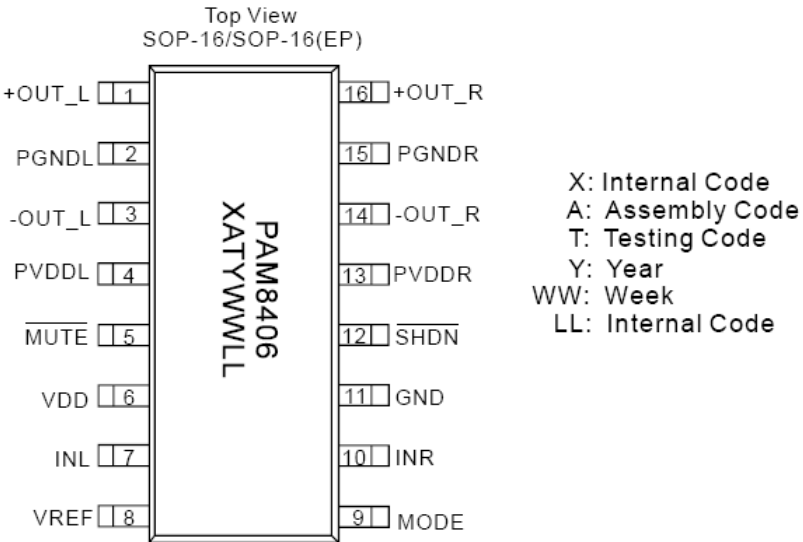
**Ordering Information**



Part Number	Package (Note 5)	Tape and Reel Quantity	Part Marking	Status (Note 4)	Alternative
PAM8406DR	SOP-16	2500	PAM8406 XATYWWLL	Active	-
PAM8406ER	SOP-16(EP)	2500	PAM8406 XATYWWLL	NRND	PAM8406DR

Notes: 4. PAM8406ER is Not Recommended for New Design (NRND). The alternative part is PAM8406DR.  
 5. For packaging details, go to our website at <https://www.diodes.com/design/support/packaging/diodes-packaging/>.

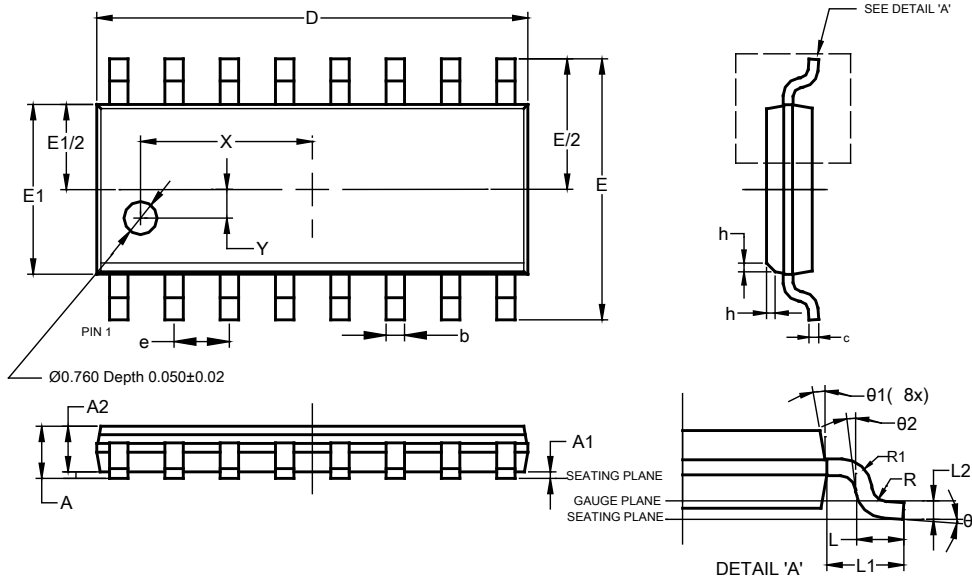
**Marking Information**



**Package Outline Dimensions**

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**SO-16**

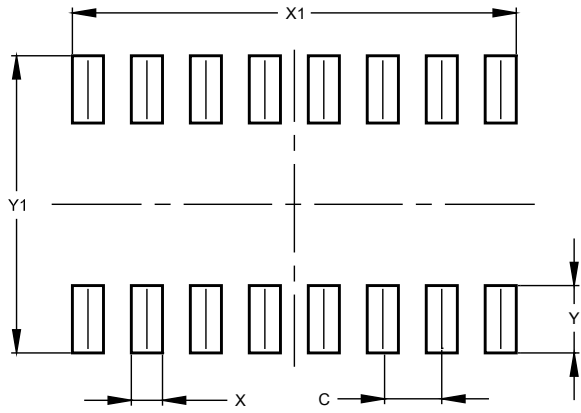


SO-16			
Dim	Min	Max	Typ
A	--	1.260	--
A1	0.10	0.23	--
A2	1.02	--	--
b	0.31	0.51	--
c	0.10	0.25	--
D	9.80	10.00	--
E	5.90	6.10	--
E1	3.80	4.00	--
e	1.27 BSC		
h	0.15	0.25	0.20
L	0.40	1.27	--
L1	1.04 REF		
L2	0.25 BSC		
R	0.07	--	--
R1	0.07	--	--
X	3.945 REF		
Y	0.661 REF		
theta	0°	8°	--
theta1	5°	15°	--
theta2	0°	--	--
<b>All Dimensions in mm</b>			

**Suggested Pad Layout**

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**SO-16**



Dimensions	Value (in mm)
C	1.270
X	0.670
X1	9.560
Y	1.450
Y1	6.400

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