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DIO2162

2-Vrms Audio Driver with Programmable-Fixed Gain

Features

- 3V-3.6V Input Supply Voltage
- No Pop/Clicks Noise when Power ON/OFF
- No Need for Output DC-Blocking Capacitors
- 2 Vrms Output Voltage at 600Ω Load
- Low Noise and THD
 SNR>105dB at 1×Gain
 Typical Vn<12μVrms 20Hz-20kHz at 1×Gain
 THD+N<0.003% at 10kΩ Load and 1×Gain
- Optimized Frequency Response between 20Hz–20kHz
- Single Terminal Input and Output
- Active Mute with more than 80dB Attenuation
- Short Circuit and Thermal Protection
- Available in TSSOP-14 Package

Descriptions

The DIO2162 is a single-ended, 2Vrms stereo audio driver, reducing component count, board space and cost. It is ideal for single-supply electronics where size and cost are critical design parameters.

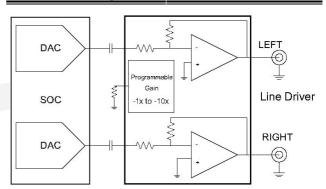
The DIO2162 can generate 5.6Vpp output voltage within 3.3V supply, and driving 2Vrms into a 600Ω Load. The device has fixed-gain single-ended inputs with a gain-select pin. Using a single resistor on this pin, the designer can choose from 13 internal programmable gain settings to match the audio driver with the codec output level. It also reduces the component count and board space.

Audio outputs have 5kV HBM ESD protection, enabling a simple ESD protection circuit. The DIO2162 has built-in active mute control with more than 80dB attenuation for pop-free mute on/off control.

Applications

- PDP/LCD TV
- Soundcards
- DVD Players
- Mini/Micro Combo Systems

Block Diagram

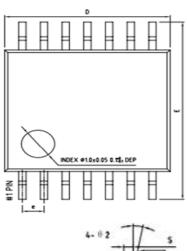


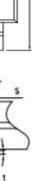
Ordering Information

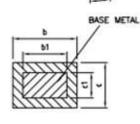
Order Part Number	Top Marking		T _A	Package	
DIO2162TP14	DIO2162	Green	-40 to +85°C	TSSOP-14	Tape & Reel, 2500



Physical Dimensions: TSSOP-14

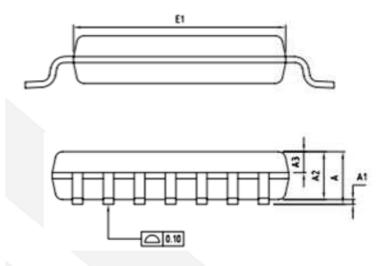






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SECTION B-B



Cymbol	Dimensions In Millimeters				
Symbol	Min	Nom	Max		
А	-	-	1.20		
A1	0.05	-	0.15		
A2	0.90	1.00	1.05		
A3	0.34	0.44	0.54		
b	0.20	-	0.28		
b1	0.20	0.22	0.24		
С	0.10	_	0.19		
c1	0.10	0.13	0.15		
D	4.86	4.96	5.06		
E	6.20	6.40	6.60		
E1	4.30	4.40	4.50		
е	0.65BSC				
L	0.45	0.60	0.75		
L1	1.00REF				
L2	0.25BSC				
R	0.09	-	-		
R1	0.09	-	-		
S	0.20	-	-		
θ1	0°	-	8°		
θ2	10°	12°	14°		
θ3	10°	12°	14°		



DIO2162

CONTACT US

Dioo is a professional design and sales corporation for high-quality and performance analog semiconductors. The company focuses on industry markets, such as, cell phone, handheld products, laptop, and medical equipments and so on. Dioo's product families include analog signal processing and amplifying, LED drivers and charger IC. Go to http://www.dioo.com for a complete list of Dioo product families.

For additional product information, or full datasheet, please contact with our Sales Department or Representatives.

