


I-AN SOUND SENSOR WITH MICROPHONE

Required knowledge Class A amplifier, transistor, microphone, Elco

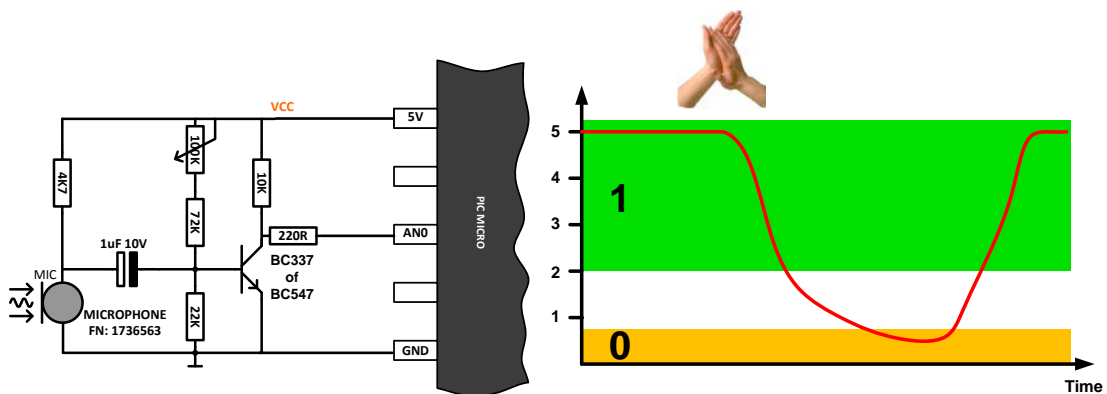
	Basic : Ohms Law, Class A amplifier, transistor amplifier, microphone, Elco
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You could use this small microphone circuit to measure sound with your microcontroller. You could even make your own decibel meter.

Components:

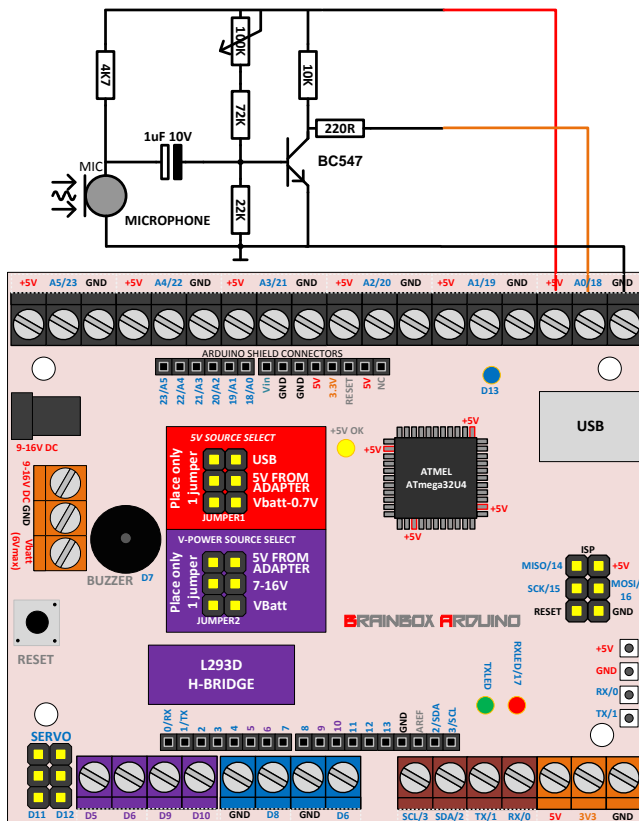
Electret microphone	Farnell: 1736563
BC547 or BC337	
Resistors 0.250W: 4K7, 72K, 22K, 10K, 220R	
Potentiometer 100K	

1. The signal that comes out of the microphone is not large enough for our microcontroller. This is why we place it in a small amplifier circuit.



2. When the microphone does not measure any sound, the signal at the analog input pin of the microcontroller will be high. The more sound, the lower the input signal at the microcontroller.
3. The potentiometer is used to make this circuit more or less sensitive.

4. Connect this sensor to one of the 6 analog inputs (A0, A1, A2, A3, A4, A5)



CODE EXAMPLE: 'I-AN'