

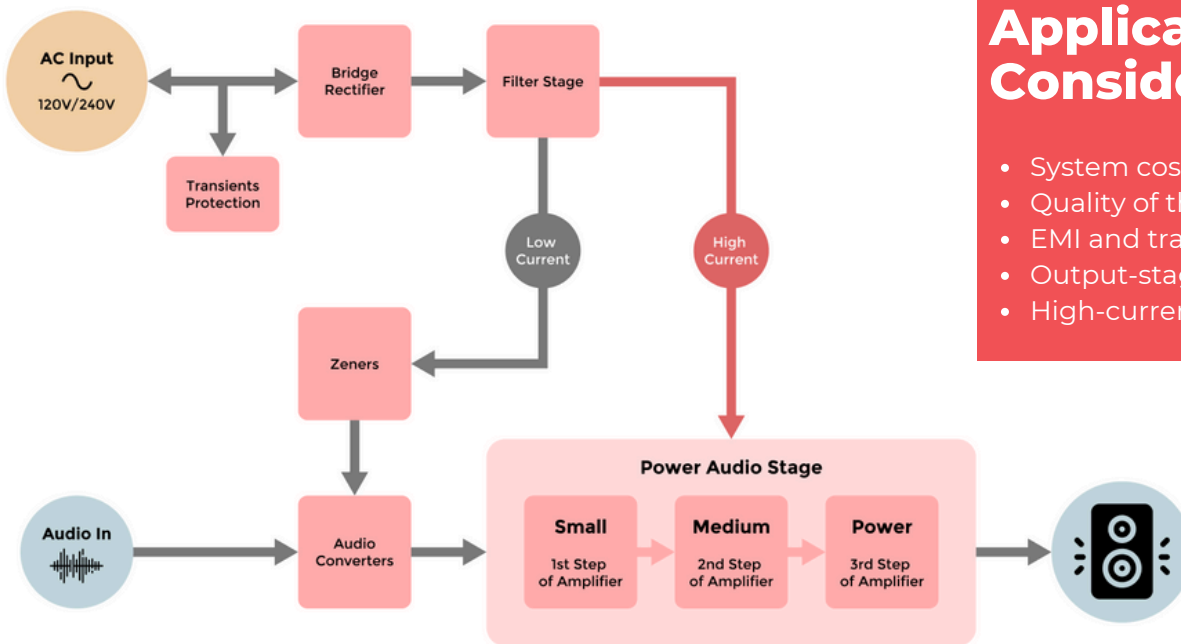
# BASIC CLASS D AMPLIFIER

*Power Up Your Sound,  
Downsize Your Design*

## Enhancing Sound, Simplifying BOMS

Class-D amplifiers, also known as switching amplifiers, offer audio enthusiasts significant benefits over class-AB amps. They use less power, generate less heat, and come in smaller package sizes with high power capacity. MOSFETs and transistors act as switches in these amps, making them efficient. Careful consideration of EMI and sound quality is essential when selecting components.

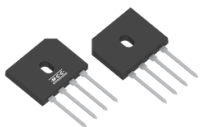
### Block Diagram



### Application Considerations:

- System cost
- Quality of the sound
- EMI and transient protection
- Output-stage protection
- High-current capability

### Recommended Products



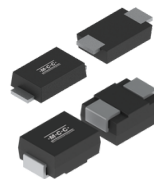
**Bridge Rectifiers**  
50-1000v

- [GBJ2501](#)
- [GBU2501](#)



**TVS**  
ESD Protection  
600-3000 Watts

- [SMBJ51CA](#)
- [SMCJ51CA](#)
- [SMLJ51CA](#)



**Zener Diodes**  
1-5 watt  
5.1V- 200V

- [SMAZ10](#)
- [SMBJ5925B](#)
- [SMBJ5347B](#)