

IRS20957S Protected Digital Audio Driver

Features

- Floating PWM input enables easy half bridge implementation
- Programmable bidirectional over-current protection with self-reset function
- Programmable preset dead-time for improved THD performances
- High noise immunity
- $\pm 100V$ ratings deliver up to 500W in output power
- 3.3 V/ 5 V logic compatible input
- Operates up to 800kHz

Typical Applications

- Home theatre systems
- Mini component stereo systems
- Powered speaker systems
- General purpose audio power amplifiers

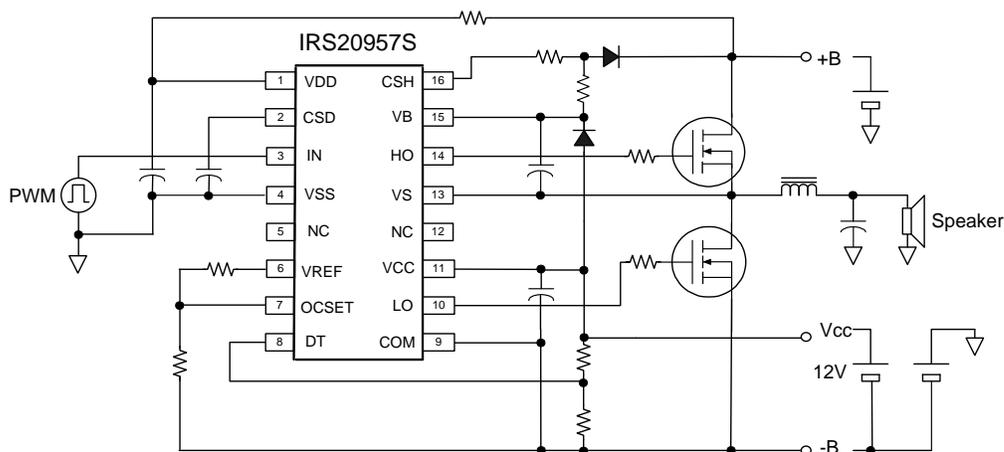
Product Summary

Topology	Half-Bridge
$V_{\text{OFFSET (max)}}$	+/- 100 V
I_{O+} & I_{O-} (typical)	1.0 A & 1.2 A
Selectable deadtime	15/25/35/80ns
Ton & toff (typical)	95ns & 80ns
OC protection delay	500ns (max)
Shutdown propagation delay	250ns (max)

Package



Typical Connection Diagram



Note: Please refer to Lead Assignments for correct pin configuration. This diagram shows electrical connections only.

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