

GD3100 IGBT Gate Driver with High Voltage Isolation

ASIL C/D ISO26262 compliant advanced gate driver for high voltage power IGBTs with integrated high voltage isolator, high speed current sense interface and robust functional safety mechanisms

Features:

- 5 kV galvanic signal isolation compatible with 1700V IGBTs
- High 15 A peak gate current source/sink capability
- <2 us short circuit protection via IGBT i-Sense direct feedback
- Programmable Desaturation Detect level, Two Level Turn off
- Redundant PWM gate control signal paths
- IGBT V_{ge} monitoring for IGBT gate control verification
- Active Miller Clamp (AMC) reduces need for turn off assist
- Temperature sense soft shutdown for system protection
- Compact 10 x 18 mm SOIC package for reduced PCB area

