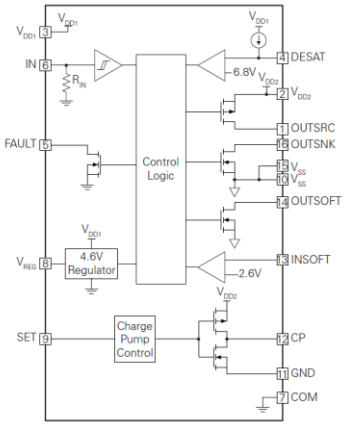
IX4352NEAU Automotive-Grade SiC MOSFET and IGBT Driver

Problem/Solution

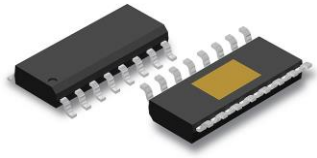
In automotive powertrain designs, parasitic inductance and capacitance can cause unwanted turn-on of SiC MOSFETs and IGBTs. The AEC-Q100 qualified IX4352NEAU simplifies gate driver circuitry with separate 9 A source and sink outputs for precise timing, an internal charge pump for selectable negative gate drive bias down to −10 V, and built-in protections including DESAT detection, UVLO, and thermal shutdown—improving switching efficiency, reliability, and dv/dt immunity without external DC-DC converters.

Technical Resources

Series Page | Datasheet | Tech-Info



Benefits



IX4352NEAU

- Simplifies building reliable gate driver circuitry
- Can drive a wide range of SiC-MOSFETs or IGBTs
- Protects driver and power device
- Simplified control interface

Features

- Internal charge pump regulator for selectable negative gate drive bias down to −10 V
- +13 V to +25 V recommended operating positive supply voltage
- DESAT detection, UVLO, TSD, Fault Output
- TTL/CMOS compatible logic input

Markets/Applications

- Automotive DC-DC converters
- Automotive drivetrains

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