



Applications

- PV inverters
- UPS
- High speed motor drives
- Induction heating
- Welding
- Military & Aerospace power converters
- Medical imaging amplifiers
- Electric vehicle
- Boost converters

Product Advantages

- Significant reduction in switching losses
- Increased system efficiency
- High temperature operation
- Higher operating frequency
- Reduced cooling requirements
- Zero reverse recovery current from diode
- Low parasitic inductance
- Reduced system size / high power density



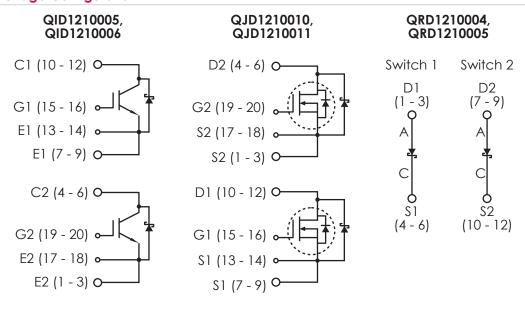
Full SiC & Hybrid SiC IGBTs

Overview

Large bandgap energy and high field breakdown are two primary characteristics of silicon carbide (SiC) which have been leveraged to create a new generation of power semiconductors with zero reverse recovery charge, significantly lower switching losses and the opportunity for higher temperature operation.

Powerex packages SiC MOSFETs and Schottky barrier diodes from leading suppliers into high performance all SiC modules or with high frequency silicon IGBTs into hybrid Si / SiC modules. The new low profile split dual package features low inductance and either a copper or AlSiC baseplate for high thermal cycling applications.

Package Configuration

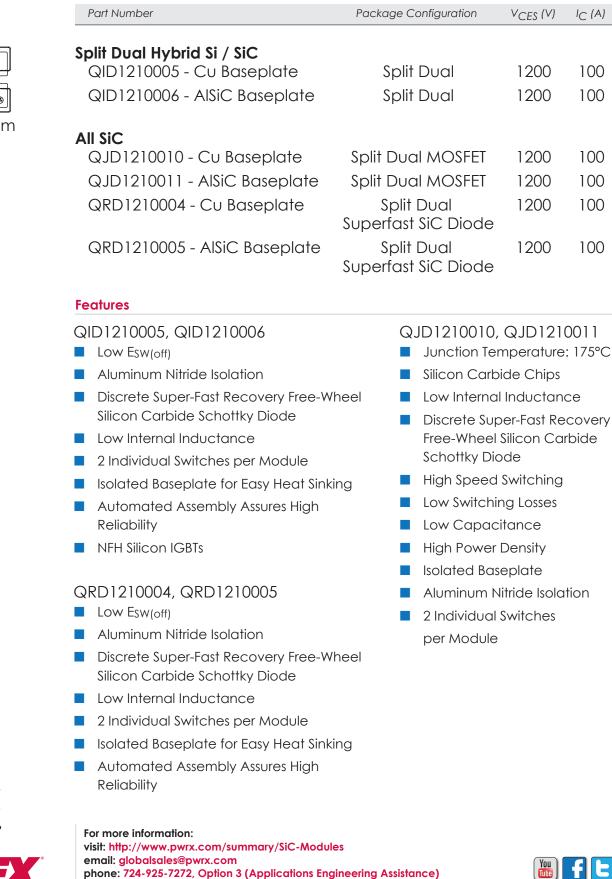


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Line-up Table





109.9mm x 56.1mm

