



DFP12HB-140-SiC DF Power Half Bridge Isolated Module

Features

VDSS = 1200 V at $T_{vj} = 25^{\circ}\text{C}$

IDDC = 140 A at $T_C = 100^{\circ}\text{C}$

Isol = 4500VAC (1min)

RDS(on) = 11 m Ω at VGS = 18 V, $T_{vj} = 25^{\circ}\text{C}$

Very low switching losses

Overload operation up to $T_{vj} = 200^{\circ}\text{C}$

Benchmark gate threshold voltage, VGS(th) = 4.2 V

Robust against parasitic turn on, 0 V turn-off gate voltage can be applied

Robust body diode for hard commutation

Applications

Front end PSU for data center

High density power application

EV Charging

Online UPS / Industrial UPS

String inverter

General purpose drives (GPD)

Solid-state circuit breaker / Solid-state relay

Servo drives

Product validation

Qualified for industrial applications according to the relevant tests of JEDEC47/20/22

Pin definition:

Pin 1 – Gate HS

Pin 2 – Kelvin sense contact HS

Pin 4-7 – VCC

Pin 9-11 – Node

Pin 12 – Gate LS

Pin 13 – Kelvin sense contact LS

Pin 15-16 – Node

Pin 18-22 – GND

