Primary

Secondary

380V
C23 0.033uF 630V C1206
C24 0.033uF 630V C1206
C19 0.033uF 630V C1206
DC-

Q1-G
TP1
R2 4.7
C4 0.01uF 100V
R1 681
Q1GATE
Q1 IGT60R070G1 60A 600V
R3 10K R0603
R4 0 R0603
HS1 Heatsink
D3 9A 600V
GNDA

Q3-G
TP3
C6 0.01uF 100V
R7 4.7
Q3 IGT60R070G1 60A 600V
Q3GATE
R8 681
R9 10K R0603
HS3 Heatsink
R10 0 R0603
GNDC

VDD3V3
C1 0.1uF C0603
VDDI
SLDO
INA
INB
DISABLE
GNDI
U1 2EDS8265H
Dual Channel 4A/8A Isolated Gate Driver
RTN

OUTA1
R24 100
OUTB1
R25 100
C12 220pf
C14 220pf

VDDA
C2 0.1uF C0603
OUTA
GNDA
R17 5.1 R0603
D1 1.7A 600V
VccPri

VDDB
C3 0.1uF C0603
OUTB
GNDB

L3 4.2~4.3uH
P1
P2
XFMR

Q2-G
TP2
R5 4.7
C5 0.01uF 100V
R6 681
Q2GATE
Q2 IGT60R070G1 60A 600V
R15 10K R0603
R16 0 R0603
HS2 Heatsink
D4 9A 600V
GNDB

Q4-G
TP4
C10 0.01uF 100V
R12 4.7
Q4 IGT60R070G1 60A 600V
Q4GATE
R18 681
R19 10K R0603
HS4 Heatsink
R23 0 R0603
GNDD

B-

VDDA
C8 0.1uF C0603
OUTA
GNDA
R11 5.1 R0603
D2 1.7A 600V
VccPri

VDDB
C9 0.1uF C0603
OUTB
GNDB

VDD3V3
C7 0.1uF C0603
VDDI
SLDO
INA
INB
DISABLE
GNDI
U2 2EDS8265H
Dual Channel 4A/8A Isolated Gate Driver
RTN

OUTC1
R26 100
OUTD1
R27 100
C15 220pf
C18 220pf

P5
380V
P2
P1
380V
DC-
VccPri
OUTC1
OUTD1
OUTA1
OUTB1
VCS-
VCS+
Primary
80mil spacing
236mil spacing
Secondary
FB Brd 1000W
Full Bridge Board Connector

C22 10uF C1206
DC-

C13 1uF 50V
VDD3V3
RTN

VCS+
D8 2A 200V
0.45A
9A Peak
R22 1
C11 0.1uF
T2 PH9494
50T
1T
DC-

R21 511 R0805
C17 470pF
D9 100MA 50V
D10 47V
C16 4700pf
R20 24.9 R1206
R13 68 R1206
VCS-
R14 N/U R0603
RTN

Feed to XDPP1100 ISEN
differential sensing
1.45mV resolution
Range -280mV, +395mV

All Resistors and Capacitors are 0805 unless otherwise note

PC Board (FAB)
P100081 B

Infineon Technologies Americas Corp.
101 N. Sepulveda Blvd. El Segundo, California 90245

Title	FULL BRIDGE BOARD 1000W PSFB-CDR	
Size	Document Number	Rev B
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