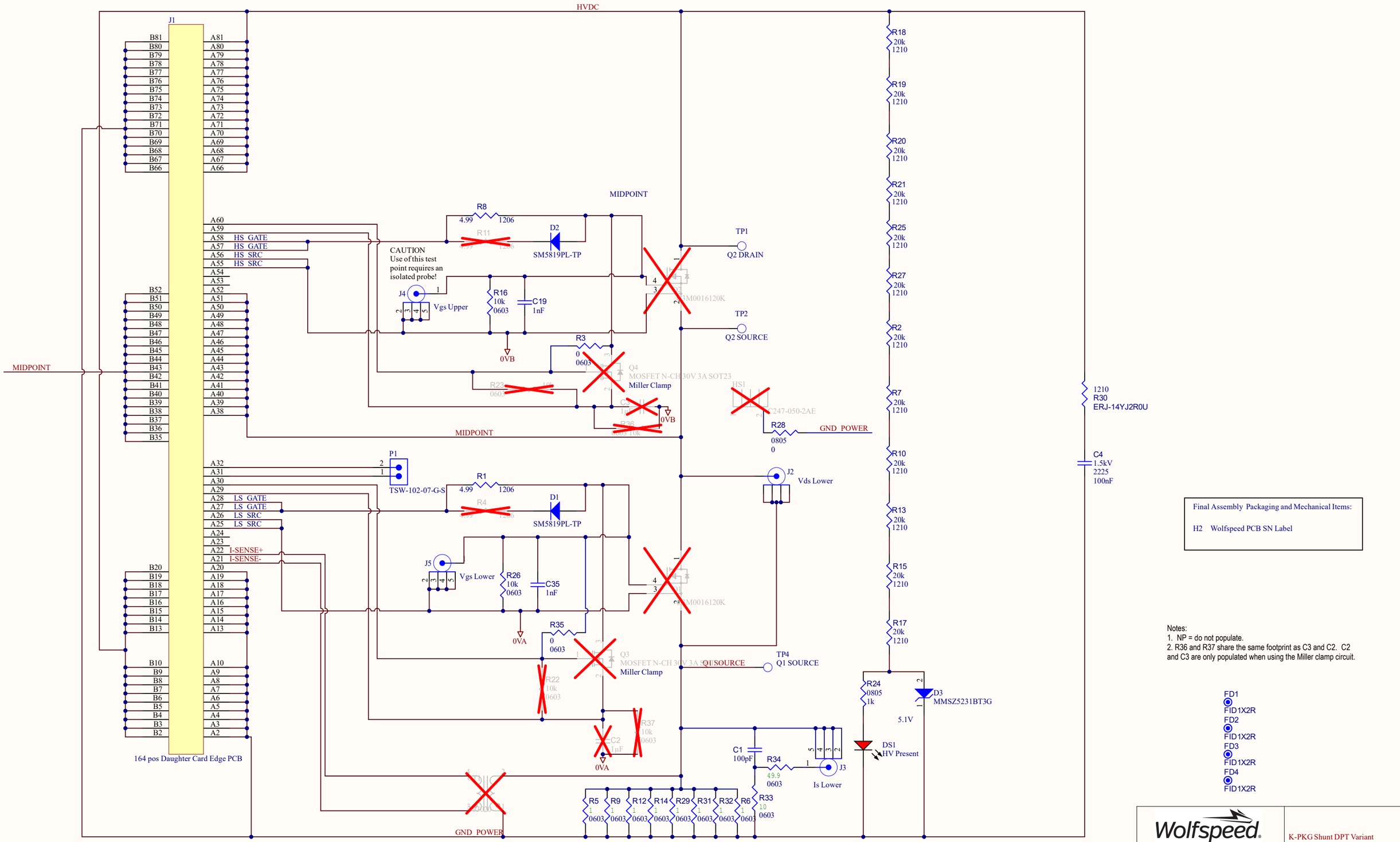
HVDC
J1
MIDPOINT
R8
4.99
1206
R11
D2
SM5819PL-TP
CAUTION
Use of this test point requires an isolated probe!
J4
Vgs Upper
R16
10k
0603
C19
1nF
0VB
R3
0
0603
Q4
MOSFET N-CH 30V 3A SOT23
Miller Clamp
R23
0603
C3
1nF
R36
0603 10k
MIDPOINT
TP1
Q2 DRAIN
TP2
Q2 SOURCE
HS1
R28
0805
0
GND_POWER
R18
20k
1210
R19
20k
1210
R20
20k
1210
R21
20k
1210
R25
20k
1210
R27
20k
1210
R2
20k
1210
R7
20k
1210
R10
20k
1210
R13
20k
1210
R15
20k
1210
R17
20k
1210
1210
R30
ERJ-14YJ2R0U
C4
1.5kV
2225
100nF
P1
TSW-102-07-G-S
R1
4.99
1206
R4
D1
SM5819PL-TP
J2
Vds Lower
J5
Vgs Lower
R26
10k
0603
C35
1nF
0VA
R35
0
0603
Q3
MOSFET N-CH 30V 3A SOT23
Miller Clamp
Q1 SOURCE
TP4
Q1 SOURCE
R22
10k
0603
R37
10k
0603
C2
1µF
0VA
R24
0805
1k
D3
MMSZ5231BT3G
5.1V
DS1
HV Present
C1
100pF
R34
49.9
0603
J3
Is Lower
R5
R9
R12
R14
R29
R31
R32
R6
R33
10
0603
GND_POWER
164 pos Daughter Card Edge PCB
HS_GATE
LS_GATE
LS_SRC
I-SENSE+
I-SENSE-
Final Assembly Packaging and Mechanical Items:
H2 Wolfspeed PCB SN Label
Notes:
1. NP = do not populate.
2. R36 and R37 share the same footprint as C3 and C2. C2 and C3 are only populated when using the Miller clamp circuit.
FD1
FID1X2R
FD2
FID1X2R
FD3
FID1X2R
FD4
FID1X2R
Wolfspeed
K-PKG Shunt DPT Variant
Title: K-package Modular Accessory Board
Drawing No: MOD-PWR-MM-K-K_SCH
Date: Sep, 2023
Size: B
Revision: 3.1
Sheet: 1 of 1