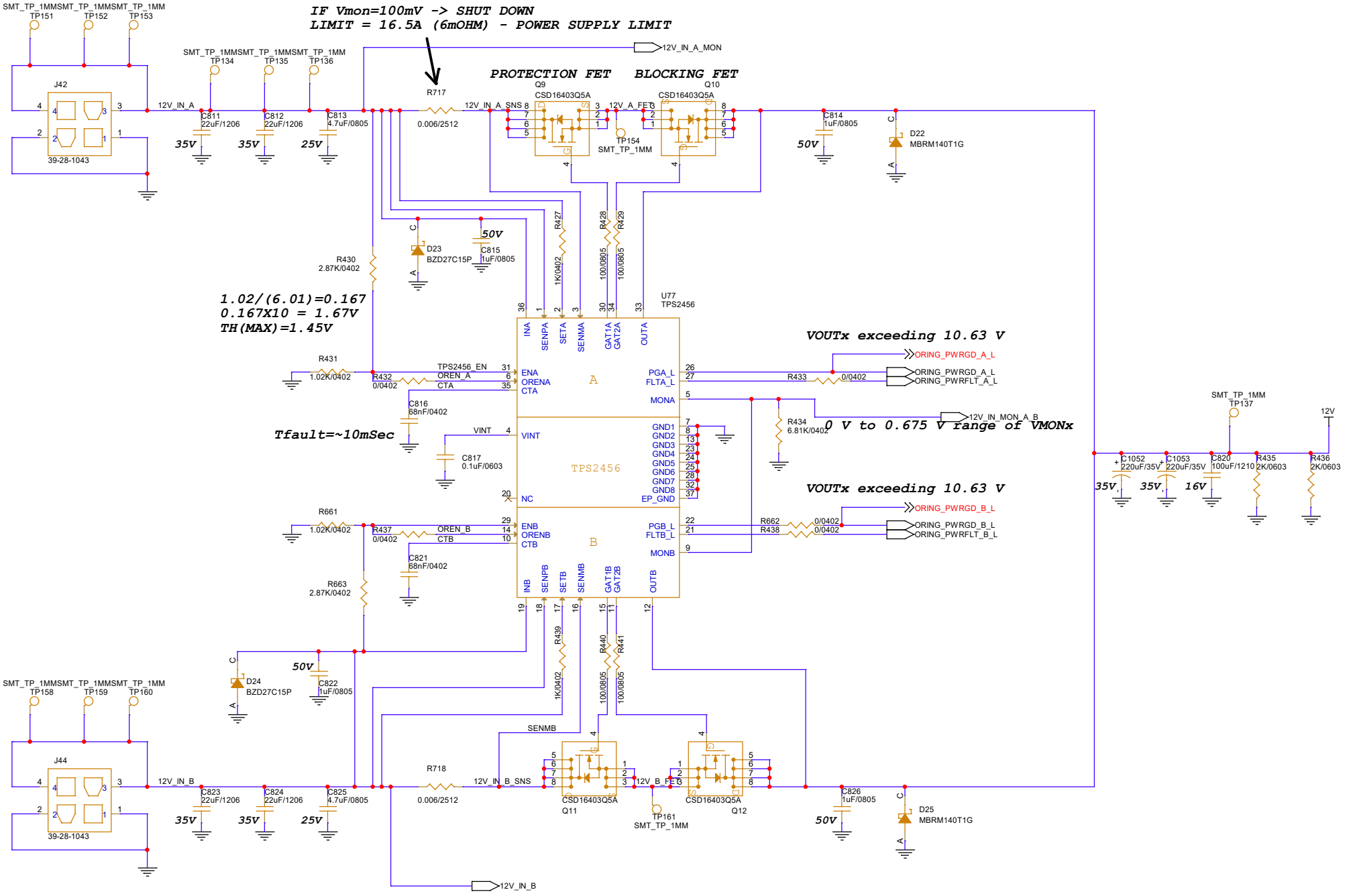
IF Vmon=100mV -> SHUT DOWN
LIMIT = 16.5A (6mOHM) - POWER SUPPLY LIMIT
PROTECTION FET
BLOCKING FET
12V_IN_A_MON
12V_IN_A
12V_IN_A_SNS
12V_A_FET
R717
0.006/2512
Q9
CSD16403Q5A
Q10
CSD16403Q5A
TP154
SMT_TP_1MM
C811 22uF/1206 35V
C812 22uF/1206 35V
C813 4.7uF/0805 25V
C814 1uF/0805 50V
D22 MBRM140T1G
J42
39-28-1043
1.02/(6.01)=0.167
0.167X10 = 1.67V
TH(MAX)=1.45V
R430 2.87K/0402
D23 BZD27C15P
C815 1uF/0805 50V
R427 1K/0402
R428 100/0805
R429 100/0805
U77
TPS2456
INA
SENPA
SETA
SENMA
GAT1A
GAT2A
OUTA
R431 1.02K/0402
R432 0/0402
TPS2456_EN
OREN_A
CTA
ENA
ORENA
CTA
A
PGA_L
FLTA_L
MONA
VOUTx exceeding 10.63 V
ORING_PWRGD_A_L
R433 0/0402
ORING_PWRFLT_A_L
C816 68nF/0402
Tfault=~10mSec
VINT
C817 0.1uF/0603
TPS2456
GND1
GND2
GND3
GND4
GND5
GND6
GND7
GND8
EP_GND
NC
R434 6.81K/0402
0 V to 0.675 V range of VMONx
12V_IN_MON_A_B
R661 1.02K/0402
R437 0/0402
OREN_B
CTB
ENB
ORENB
CTB
B
PGB_L
FLTB_L
MONB
VOUTx exceeding 10.63 V
ORING_PWRGD_B_L
R662 0/0402
R438 0/0402
ORING_PWRFLT_B_L
C821 68nF/0402
R663 2.87K/0402
INB
SENPB
SETB
SENMB
GAT1B
GAT2B
OUTB
D24 BZD27C15P
C822 1uF/0805 50V
R439 1K/0402
R440 100/0805
R441 100/0805
SENMB
J44
39-28-1043
12V_IN_B
C823 22uF/1206 35V
C824 22uF/1206 35V
C825 4.7uF/0805 25V
R718
0.006/2512
12V_IN_B_SNS
Q11
CSD16403Q5A
Q12
CSD16403Q5A
TP161
SMT_TP_1MM
12V_B_FET
C826 1uF/0805 50V
D25 MBRM140T1G
12V_IN_B
SMT_TP_1MM
TP137
12V
C1052 220uF/35V 35V
C1053 220uF/35V 35V
C820 100uF/1210 16V
R435 2K/0603
R436 2K/0603
SMT_TP_1MMSMT_TP_1MMSMT_TP_1MM
TP151 TP152 TP153
SMT_TP_1MMSMT_TP_1MMSMT_TP_1MM
TP134 TP135 TP136
SMT_TP_1MMSMT_TP_1MMSMT_TP_1MM
TP158 TP159 TP160