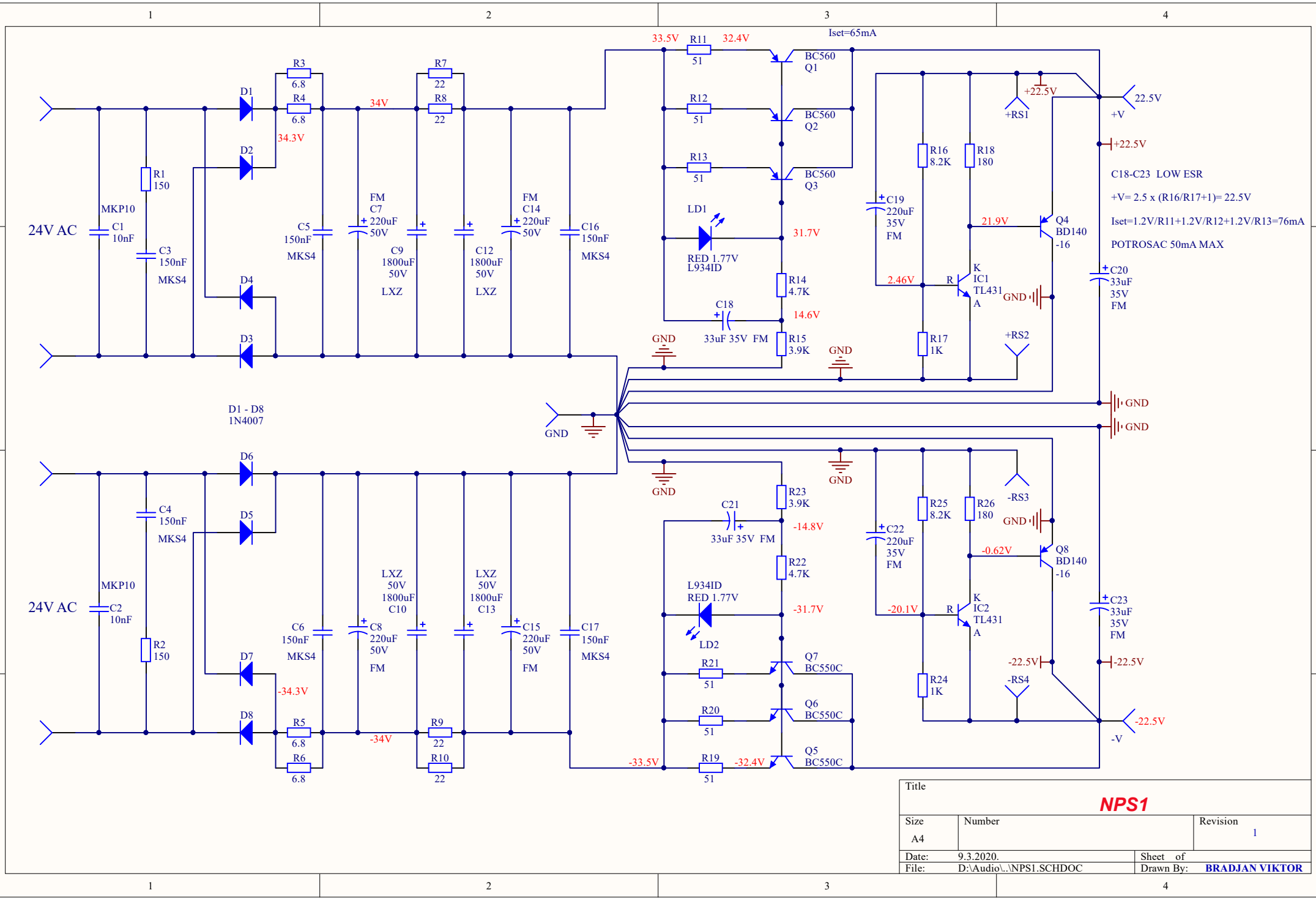
Iset=65mA
24V AC
MKP10
C1
10nF
C3
150nF
MKS4
R1
150
D1
D2
D3
D4
R3
6.8
R4
6.8
34.3V
34V
C5
150nF
MKS4
FM
C7
220uF
50V
C9
1800uF
50V
LXZ
R7
22
R8
22
FM
C14
220uF
50V
C12
1800uF
50V
LXZ
C16
150nF
MKS4
D1 - D8
1N4007
GND
33.5V
R11
51
32.4V
R12
51
R13
51
BC560
Q1
BC560
Q2
BC560
Q3
LD1
RED 1.77V
L934ID
31.7V
R14
4.7K
C18
33uF 35V FM
14.6V
R15
3.9K
GND
GND
C19
220uF
35V
FM
R16
8.2K
R18
180
+22.5V
+RS1
22.5V
+V
+22.5V
21.9V
Q4
BD140
-16
2.46V
R
K
IC1
TL431
A
GND
R17
1K
+RS2
C20
33uF
35V
FM
C18-C23 LOW ESR
+V= 2.5 x (R16/R17+1)= 22.5V
Iset=1.2V/R11+1.2V/R12+1.2V/R13=76mA
POTROSAC 50mA MAX
GND
GND
24V AC
MKP10
C2
10nF
C4
150nF
MKS4
R2
150
D6
D5
D7
D8
C6
150nF
MKS4
LXZ
50V
1800uF
C10
C8
220uF
50V
FM
LXZ
50V
1800uF
C13
C15
220uF
50V
FM
C17
150nF
MKS4
-34.3V
R5
6.8
R6
6.8
-34V
R9
22
R10
22
-33.5V
R19
51
-32.4V
GND
C21
33uF 35V FM
R23
3.9K
-14.8V
R22
4.7K
L934ID
RED 1.77V
LD2
-31.7V
R21
51
R20
51
Q7
BC550C
Q6
BC550C
Q5
BC550C
GND
C22
220uF
35V
FM
R25
8.2K
R26
180
-RS3
GND
-0.62V
Q8
BD140
-16
-20.1V
R
K
IC2
TL431
A
R24
1K
-22.5V
-RS4
C23
33uF
35V
FM
-22.5V
-22.5V
-V
Title
NPS1
Size
A4
Number
Revision
1
Date: 9.3.2020.
Sheet of
File: D:\Audio\..\NPS1.SCHDOC
Drawn By: BRADJAN VIKTOR