

Design Notes:
Required GBW = 18.5kHz; OPA323 GBW = 20MHz
R5 and R9 1% tolerance



J2
CAN Bus Connector

1
2 CANL
3 CANH
4
5
6

F1
350mA Polyfuse
GND

R12
93.1mR
max I_d =
350 mA

+5V
TP1
5v

+3V3D

C8
0.1uF
GND

U2
INA180
GAIN: 100 V/V = 40 dB
IN-
IN+
V_{OS}
VO
CURR_SENSE

SPX3819M5-L-3-3

U6
IN
EN
OUT
BP
GND

TP2
3V3D

+3V3D
C21
1uF
GND

C9
1uF
GND

C11
10nF
GND

C10
0.1uF
AGND

U8
MCP1754S-3302xCB

VI
V_{OS}
VO
AGND

C20
0.1uF
AGND

+3V3A
C22
10uF
AGND

NT1
NetTie_2
GND
AGND

H1
MountingHole_Pad
AGND

H2
MountingHole_Pad

H3
MountingHole_Pad
H4
MountingHole_Pad
GND

Sheet: /Power/
File: Power.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. 8.0.9

Rev:

Id: 3/3