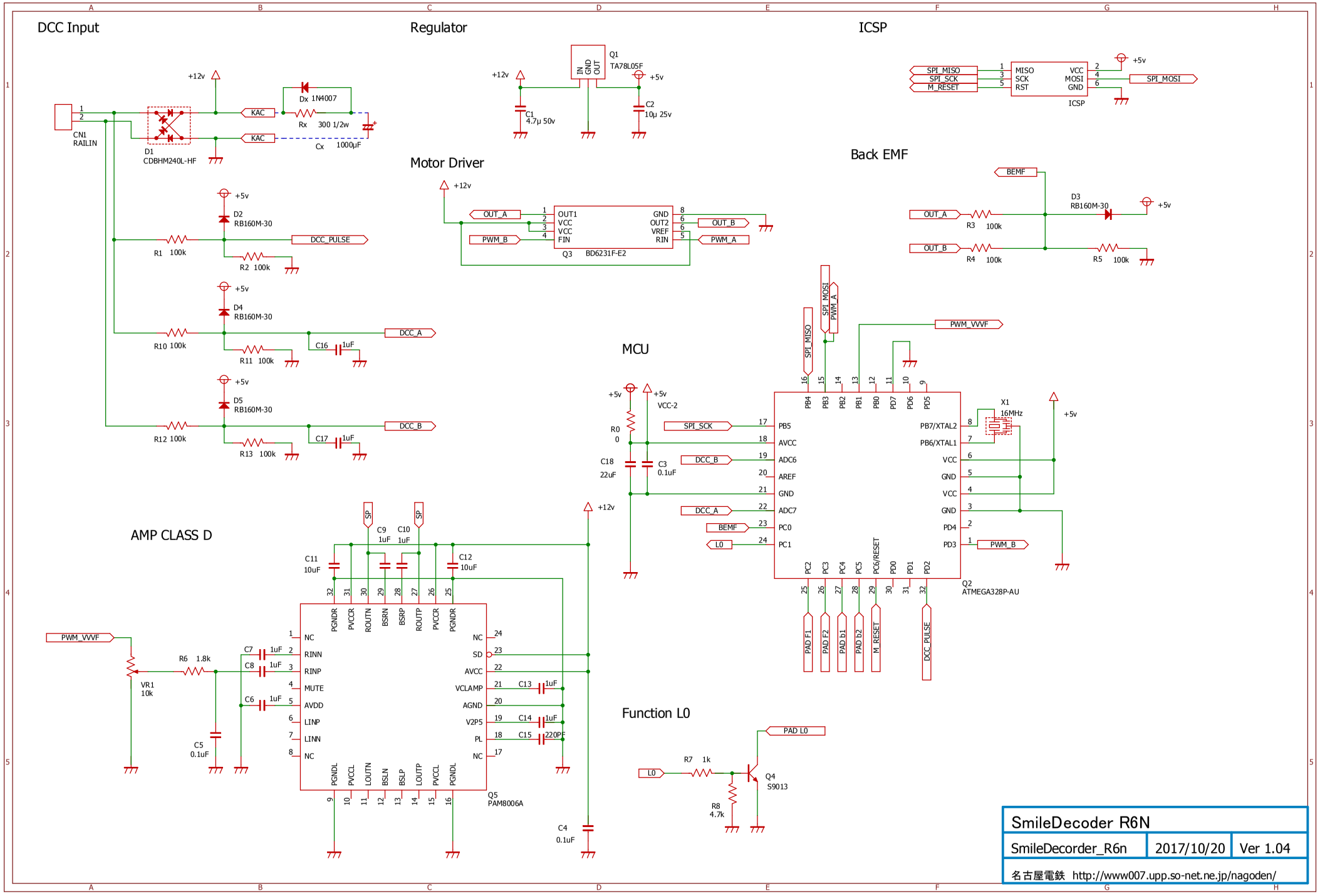
DCC Input
CN1
RAILIN
D1
CDBHM240L-HF
Dx 1N4007
Rx 300 1/2w
Cx 1000µF
KAC
KAC
+12v
D2
RB160M-30
D4
RB160M-30
D5
RB160M-30
+5v
R1 100k
R2 100k
R10 100k
R11 100k
R12 100k
R13 100k
C16 1uF
C17 1uF
DCC_PULSE
DCC_A
DCC_B
Regulator
Q1
TA78L05F
IN
GND
OUT
C1
4.7µ 50v
C2
10µ 25v
Motor Driver
Q3
BD6231F-E2
OUT_A
OUT_B
PWM_B
PWM_A
OUT1
VCC
VCC
FIN
GND
OUT2
VREF
RIN
ICSP
SPI_MISO
SPI_SCK
M_RESET
SPI_MOSI
MISO
SCK
RST
VCC
MOSI
GND
Back EMF
BEMF
D3
RB160M-30
R3 100k
R4 100k
R5 100k
MCU
Q2
ATMEGA328P-AU
VCC-2
R0
0
C18
22uF
C3
0.1uF
X1
16MHz
PWM_VVVF
PB5
PB4
PB3
PB2
PB1
PB0
PD7
PD6
PD5
PB7/XTAL2
PB6/XTAL1
PC2
PC3
PC4
PC5
PC6/RESET
PD0
PD1
PD2
PD3
PD4
PAD F1
PAD F2
PAD b1
PAD b2
M_RESET
AMP CLASS D
Q5
PAM8006A
VR1
10k
R6 1.8k
C5
0.1uF
C7 1uF
C8 1uF
C6 1uF
C9 1uF
C10 1uF
C11 10uF
C12 10uF
C13 1uF
C14 1uF
C15 220PF
C4
0.1uF
PGNDR
PVCCR
ROUTN
BSRN
BSRP
ROUTP
PVCCR
PGNDR
NC
RINN
RINP
MUTE
AVDD
LINP
LINN
NC
SD
AVCC
VCLAMP
AGND
V2P5
PL
NC
PGNDL
PVCCL
LOUTN
BSLN
BSLP
LOUTP
PVCCL
PGNDL
Function L0
PAD L0
L0
R7 1k
R8
4.7k
Q4
S9013
SmileDecoder R6N
SmileDecorder_R6n
2017/10/20
Ver 1.04
名古屋電鉄 http://www007.upp.so-net.ne.jp/nagoden/