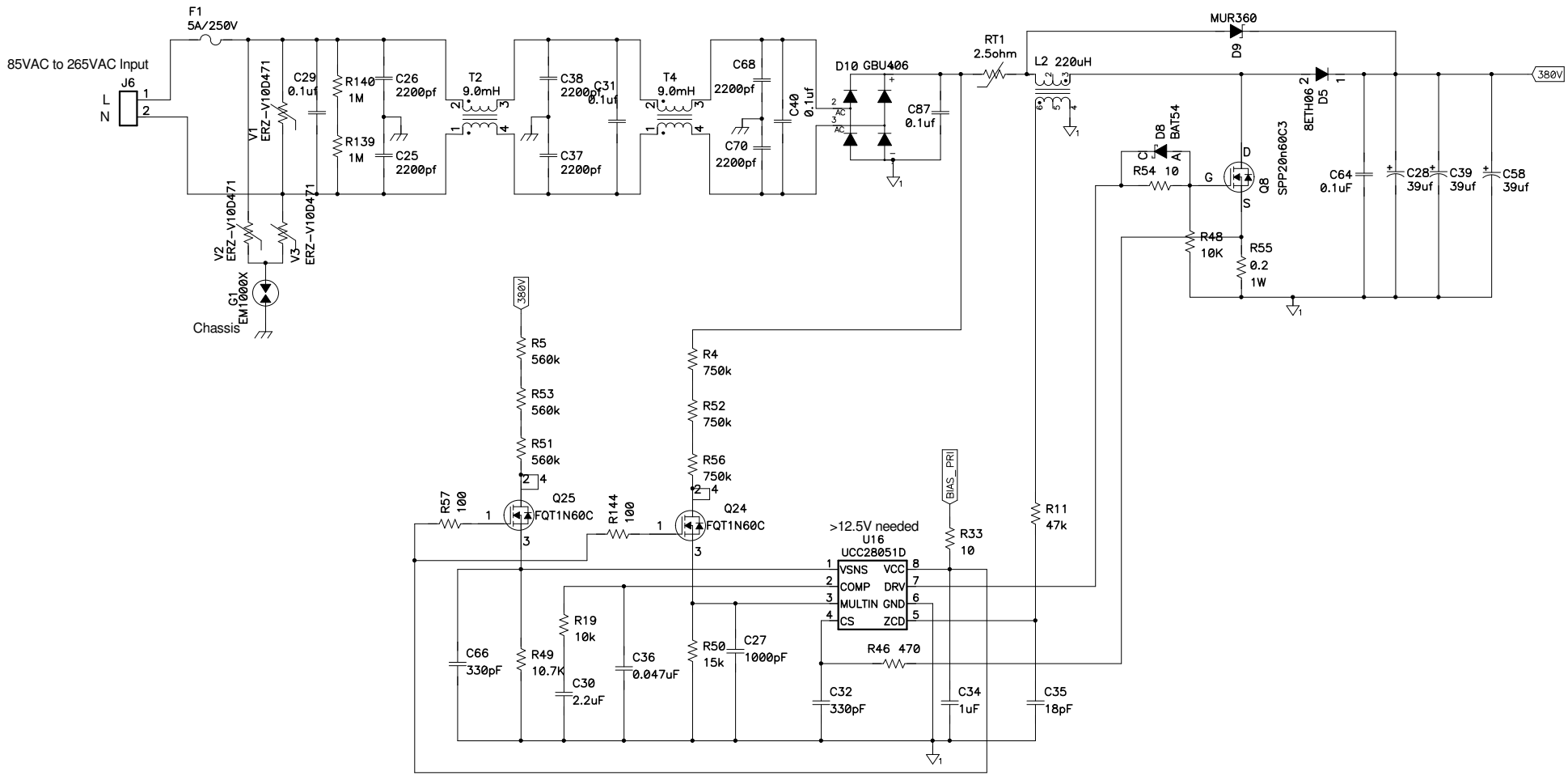
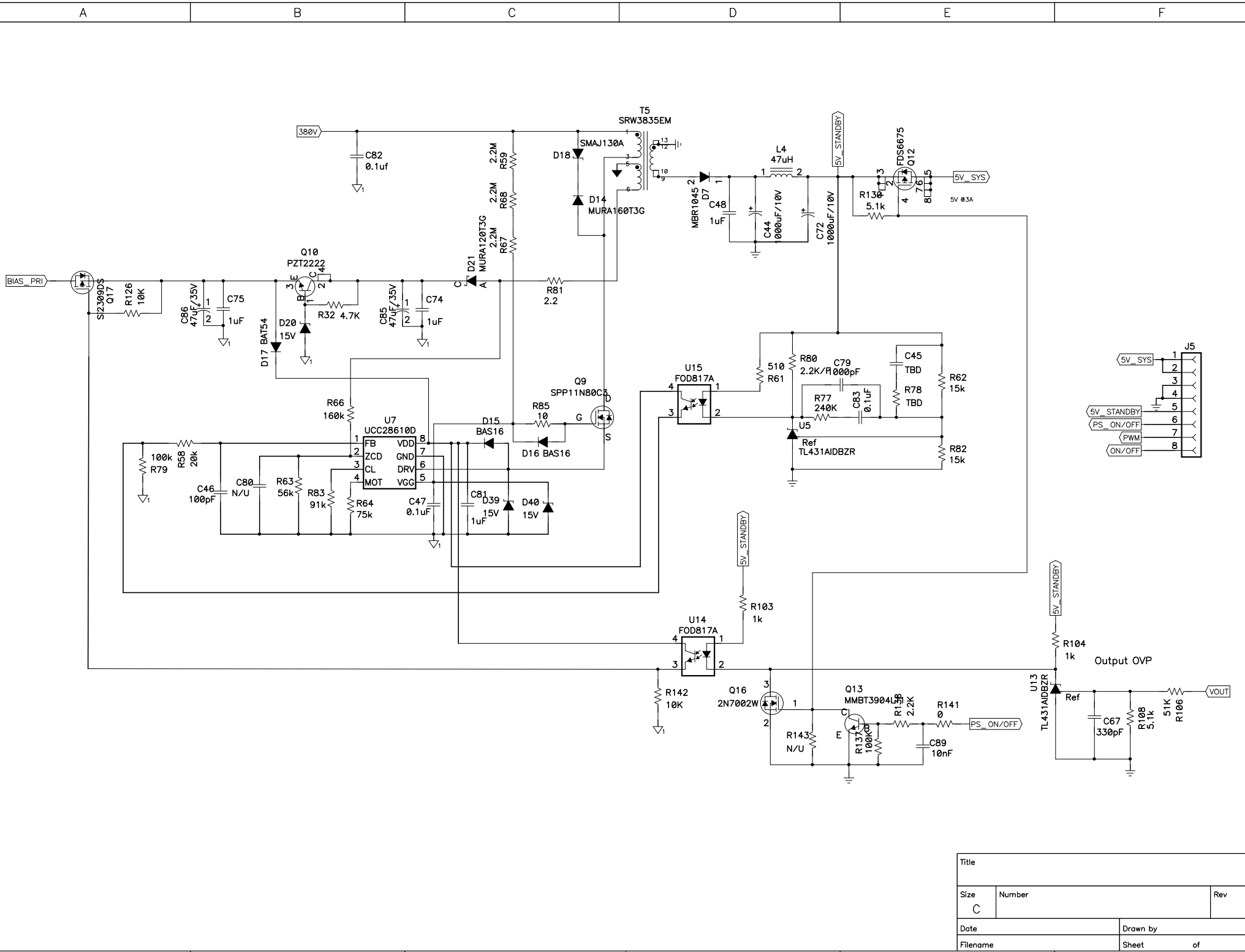
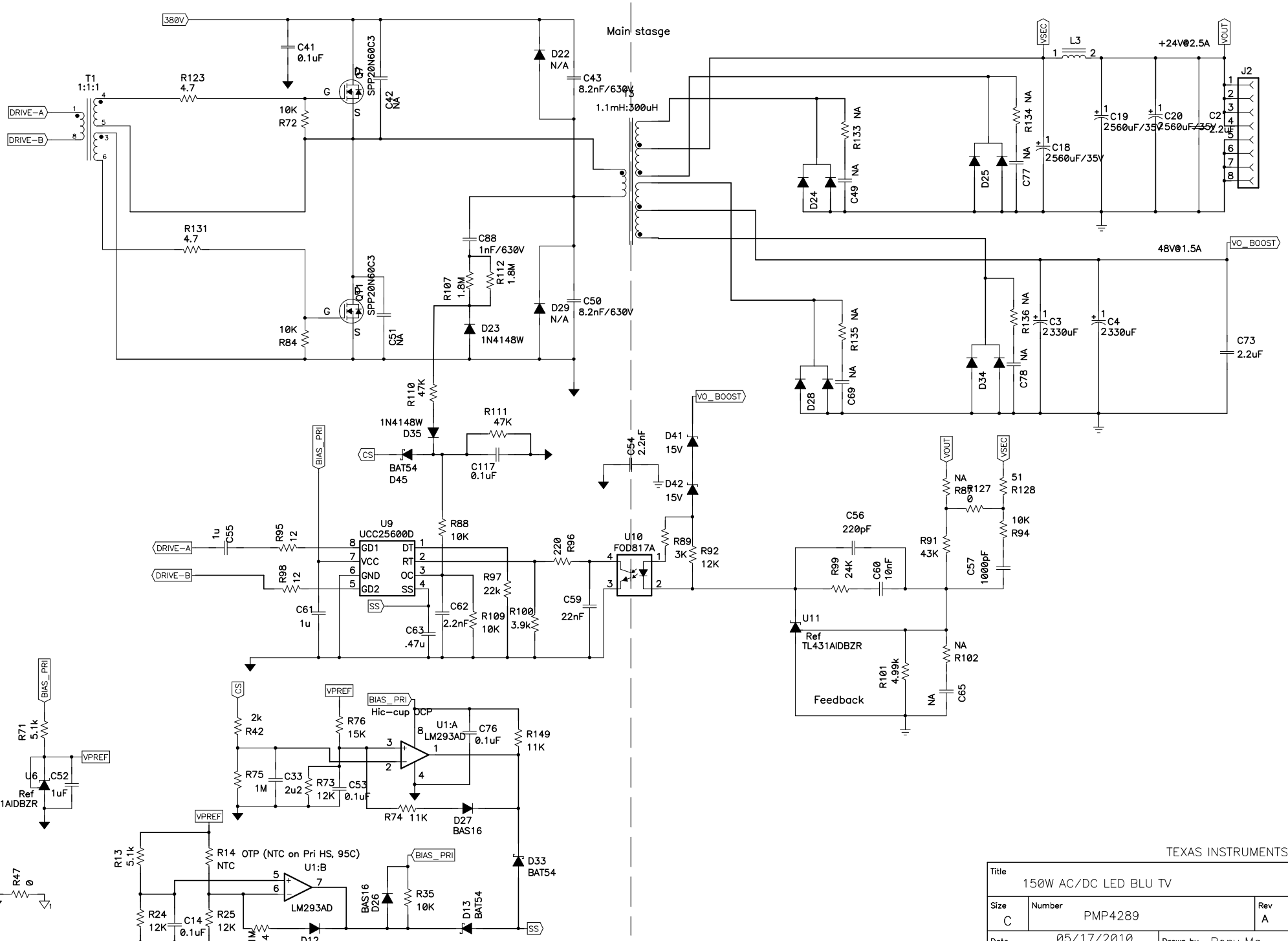


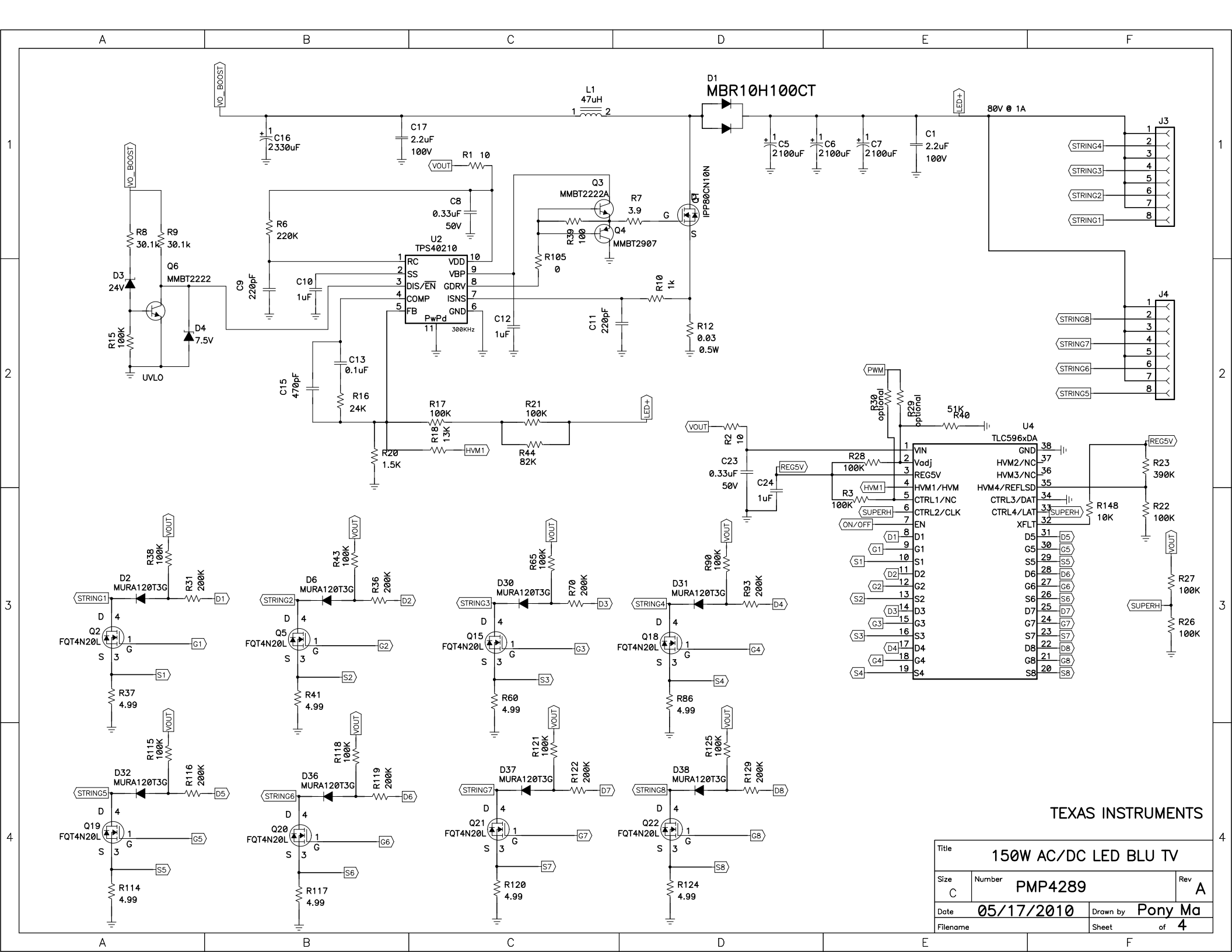
Title		
Size C	Number	Rev
Date		Drawn by
Filename		Sheet of


380V
C82
0.1uf
T5
SRW3835EM
SMAJ130A
D18
D14
MURA160T3G
2.2M
R59
2.2M
R68
2.2M
R67
D21
MURA120T3G
MBR1045
D7
L4
47uH
5V_STANDBY
FDS6675
Q12
5V_SYS
5V @3A
R130
5.1k
C48
1uF
C44
000uF/10V
C72
1000uF/10V
BIAS_PRI
SI2309DS
Q17
R126
10K
C86
47uF/35V
C75
1uF
Q10
PZT2222
R32 4.7K
D20
15V
D17 BAT54
C85
47uF/35V
C74
1uF
R81
2.2
U15
FOD817A
510
R61
R80
2.2K/1%
C79
000pF
C45
TBD
R78
TBD
R62
15k
R77
240K
C83
0.1uF
U5
Ref
TL431AIDBZR
R82
15k
J5
5V_SYS
5V_STANDBY
PS_ON/OFF
PWM
ON/OFF
Q9
SPP11N80C3
R85
10
R66
160k
U7
UCC28610D
FB
ZCD
CL
MOT
VDD
GND
DRV
VGG
D15
BAS16
D16 BAS16
100k
R79
R58
20k
C46
100pF
C80
N/U
R63
56k
R83
91k
R64
75k
C47
0.1uF
C81
1uF
D39
15V
D40
15V
U14
FOD817A
R103
1k
R142
10K
Q16
2N7002W
Q13
MMBT3904LT1
R135
2.2K
R141
0
PS_ON/OFF
R143
N/U
R137
100K
C89
10nF
R104
1k
Output OVP
U13
TL431AIDBZR
Ref
C67
330pF
R108
5.1k
51K
R106
VOUT
Title
Size
C
Number
Rev
Date
Drawn by
Filename
Sheet
of



TEXAS INSTRUMENTS

Title: 150W AC/DC LED BLU TV		
Size: C	Number: PMP4289	Rev: A
Date: 05/17/2010	Drawn by: Pony Ma	
Filename: 06_PMP4298_RevB.sch	Sheet: 3 of 4	


VO_BOOST
L1
47uH
D1
MBR10H100CT
LED+
80V @ 1A
C16
2330uF
C17
2.2uF
100V
C5
2100uF
C6
2100uF
C7
2100uF
C1
2.2uF
100V
J3
STRING4
STRING3
STRING2
STRING1
R1 10
VOUT
C8
0.33uF
50V
R6
220K
Q3
MMBT2222A
R7
3.9
Q4
MMBT2907
R39
100
R105
0
Q1
IPP80CN10N
U2
TPS40210
RC
SS
DIS/EN
COMP
FB
VDD
VBP
GDRV
ISNS
GND
PwPd
300KHz
C9
220pF
C10
1uF
C12
1uF
C11
220pF
R10
1k
R12
0.03
0.5W
R8
30.1k
R9
30.1k
D3
24V
Q6
MMBT2222
R15
100K
D4
7.5V
UVLO
C13
0.1uF
C15
470pF
R16
24K
R17
100K
R18
13K
R20
1.5K
HVM1
R21
100K
R44
82K
J4
STRING8
STRING7
STRING6
STRING5
PWM
R30
optional
R29
optional
51K
R40
U4
TLC596xDA
R2
10
C23
0.33uF
50V
C24
1uF
REG5V
R28
100K
R3
100K
SUPERH
ON/OFF
VIN
Vadj
REG5V
HVM1/HVM
CTRL1/NC
CTRL2/CLK
EN
D1
G1
S1
D2
G2
S2
D3
G3
S3
D4
G4
S4
GND
HVM2/NC
HVM3/NC
HVM4/REFLSD
CTRL3/DAT
CTRL4/LAT
XFLT
D5
G5
S5
D6
G6
S6
D7
G7
S7
D8
G8
S8
R148
10K
R23
390K
R22
100K
R27
100K
R26
100K
R38
100K
D2
MURA120T3G
R31
200K
STRING1
Q2
FQT4N20L
G1
S1
R37
4.99
R43
100K
D6
MURA120T3G
R36
200K
STRING2
Q5
FQT4N20L
G2
S2
R41
4.99
R65
100K
D30
MURA120T3G
R70
200K
STRING3
Q15
FQT4N20L
G3
S3
R60
4.99
R90
100K
D31
MURA120T3G
R93
200K
STRING4
Q18
FQT4N20L
G4
S4
R86
4.99
R115
100K
D32
MURA120T3G
R116
200K
STRING5
Q19
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G5
S5
R114
4.99
R118
100K
D36
MURA120T3G
R119
200K
STRING6
Q20
FQT4N20L
G6
S6
R117
4.99
R121
100K
D37
MURA120T3G
R122
200K
STRING7
Q21
FQT4N20L
G7
S7
R120
4.99
R125
100K
D38
MURA120T3G
R129
200K
STRING8
Q22
FQT4N20L
G8
S8
R124
4.99
TEXAS INSTRUMENTS
Title
150W AC/DC LED BLU TV
Size
C
Number
PMP4289
Rev
A
Date
05/17/2010
Drawn by
Pony Ma
Filename
Sheet
of
4

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