# SMPS with adjustable vout

K L1 L2  1

Leakage omitted
for simulation speed.

187mW  R14
33

C11
470p

D1
RFN30TS6D

Higer voltage
diode would
be used.

C7
8µ2

C10
3n3

R7
22k

C5
220p

C4
4n7

R5
4K7

Rser=0.03

V1
11

D3
RFN5TF8S

L1
2.45e-3

L2
98µ

R12
1k

R8
11500

C6
22µ

C9
22n

V2
Rser=0.1
5

V3
305

R11
10k

Vcc

FB

COMP

Vref

Rt/Ct

U1

LT1241

Output

Isense

GND

R1
4.7

R2
33k

R3
470

ifet rms = 258mA
P(FET) = 318mW

STW11NM80

M1

C1
750p

R13
1k

U2
LT6220

R10
16.33

R4
2750

C3
2n2

C2
4µ7

100KHz

R6
1.6

R9
2500

V4
Rser=0.01
PWL(0 2.3 10m 2.3 10001u 2.5)

The opamp
is used to adjust
the Vout.

.tran 0 100m 0 startup