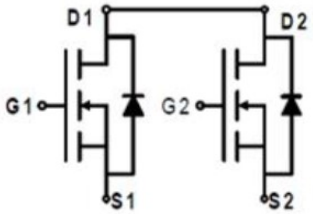
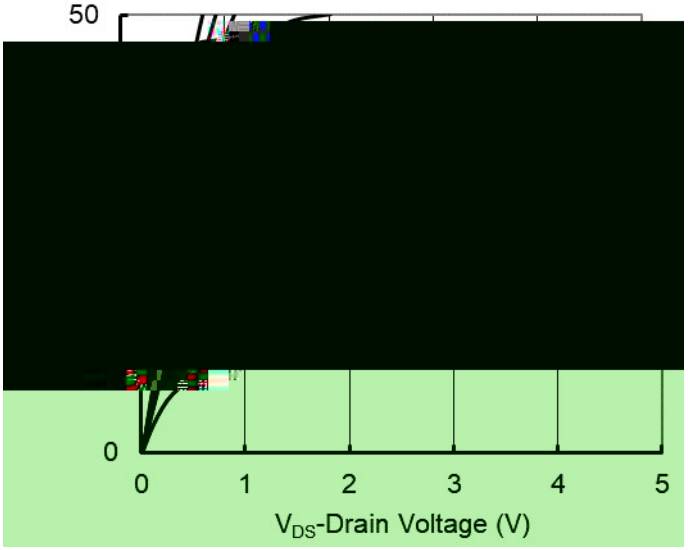
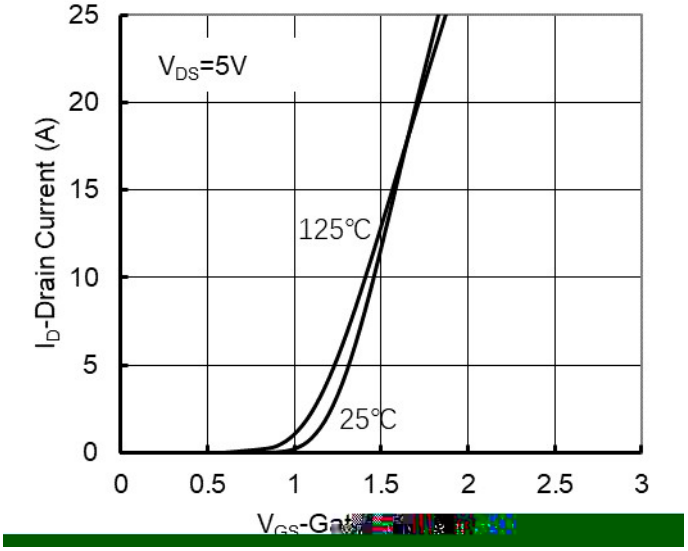
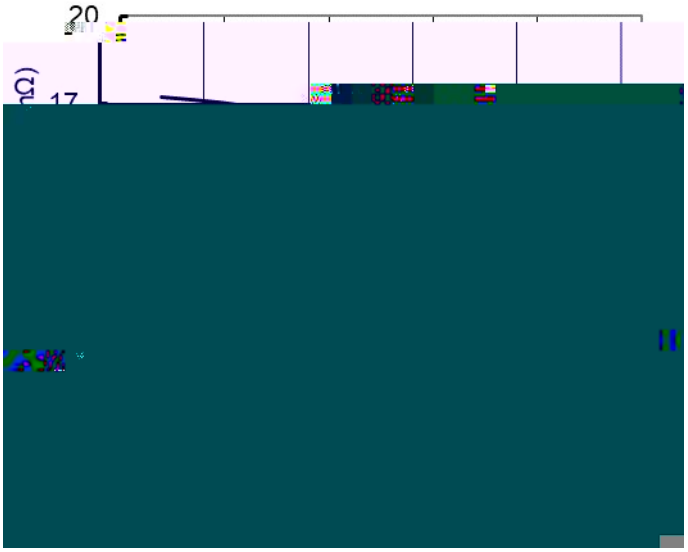
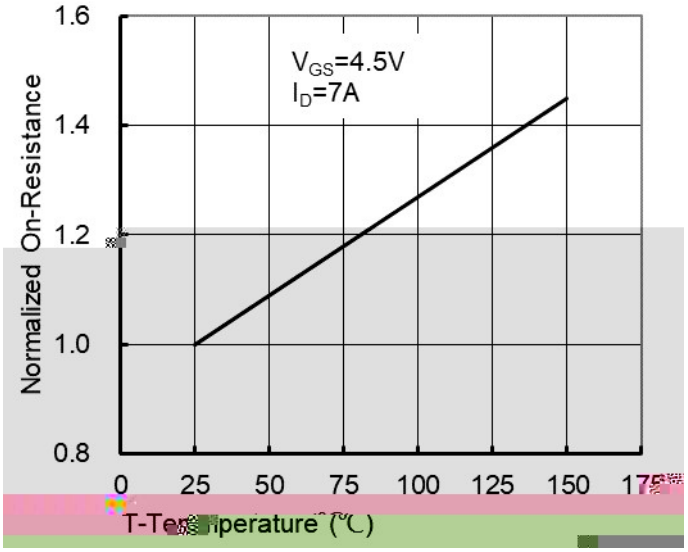

S1
D1/D2
S2
G2

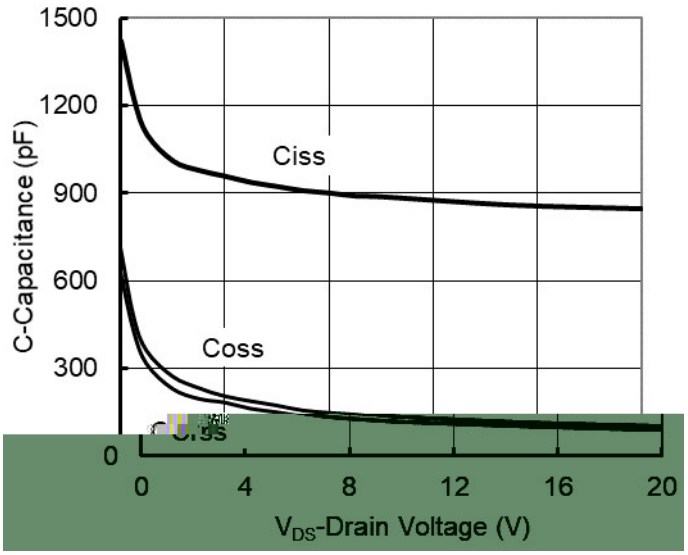

D1
D2
G1
G2
S1
S2

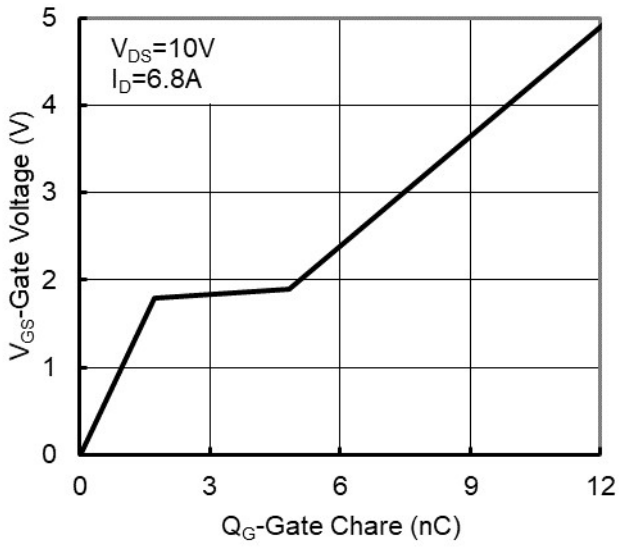

50
0
0
1
2
3
4
5
V_{DS}-Drain Voltage (V)

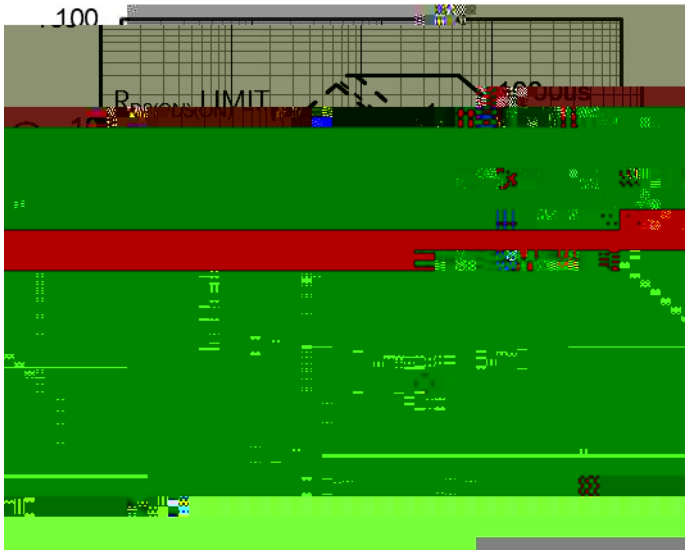

25
20
15
10
5
0
V_{DS}=5V
125℃
25℃
I_D-Drain Current (A)
0
0.5
1
1.5
2
2.5
3
V_{GS}-Gat

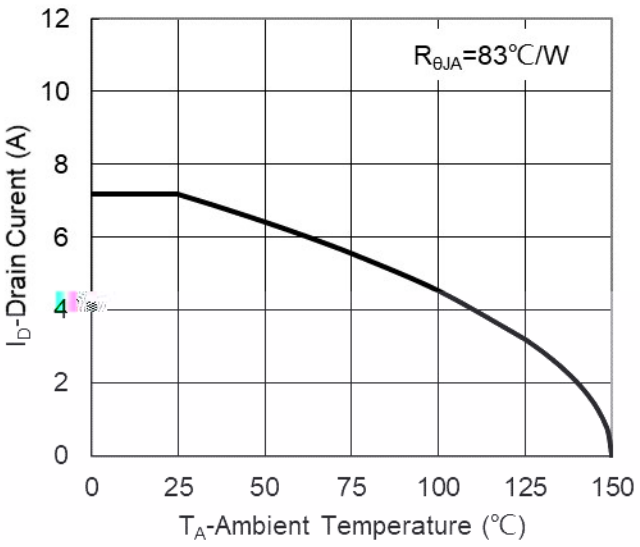

20
17

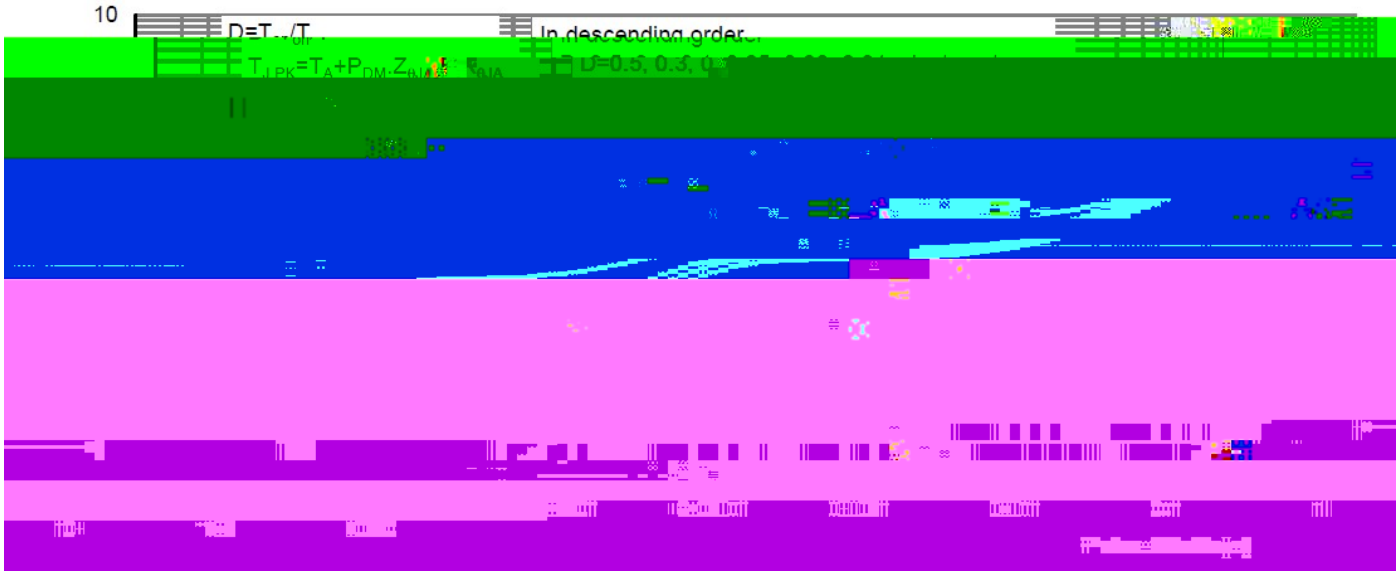

1.6
1.4
1.2
1.0
0.8
V_{GS}=4.5V
I_D=7A
Normalized On-Resistance
0
25
50
75
100
125
150
T-Temperature (℃)

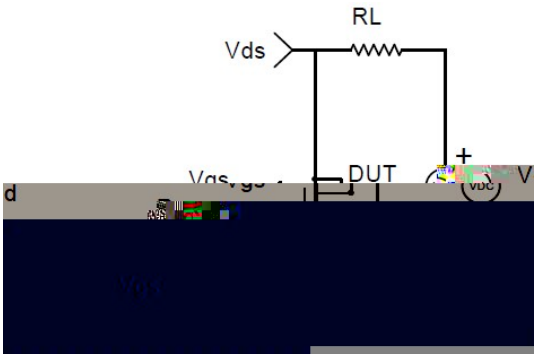

1500
1200
900
600
300
0
Ciss
Coss
C-Capacitance (pF)
0
4
8
12
16
20
V_{DS}-Drain Voltage (V)

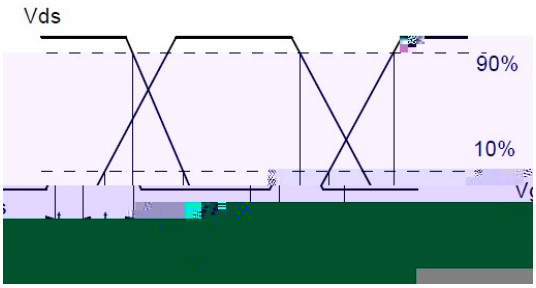

5
4
3
2
1
0
V_{DS}=10V
I_D=6.8A
V_{GS}-Gate Voltage (V)
0
3
6
9
12
Q_G-Gate Chare (nC)

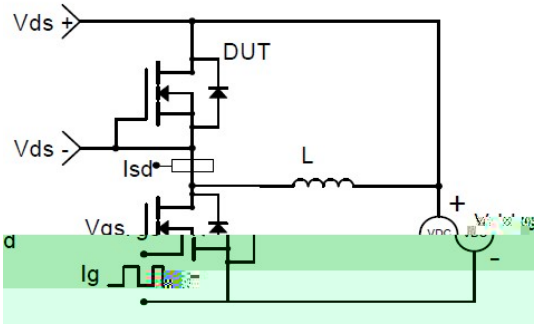

100
LIMIT
100μs

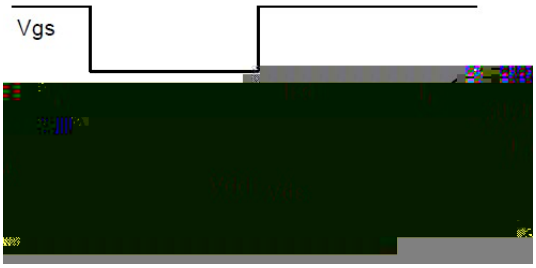

12
10
8
6
4
2
0
0
25
50
75
100
125
150
$R_{\theta JA}$=83℃/W
I_D-Drain Curent (A)
T_A-Ambient Temperature (℃)

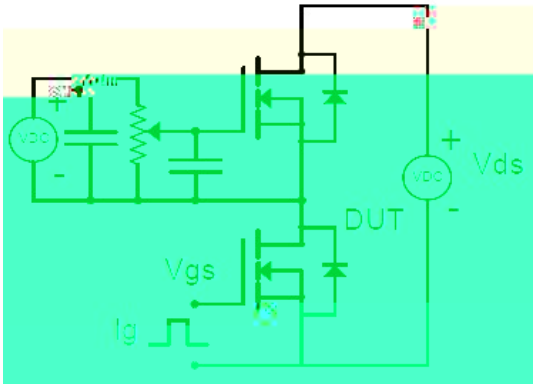

10
D=T../T..
In descending order..
$T_{J,PK}=T_A+P_{DM}.Z_{\theta JA}$
$R_{\theta JA}$
D=0.5, 0.3,

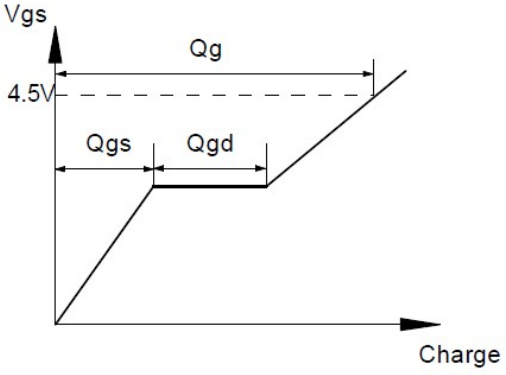

RL
Vds
DUT
+
VDC
-

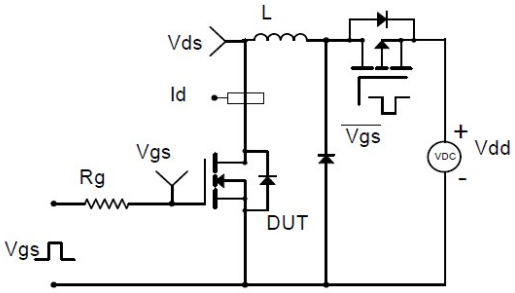

Vds
90%
10%

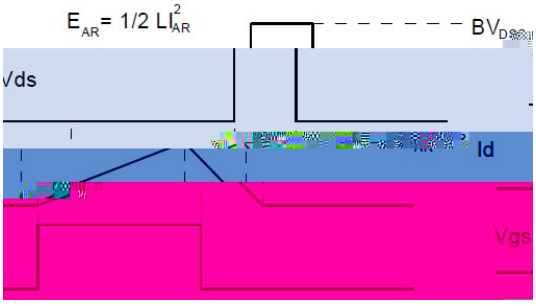

Vds +
DUT
Vds -
Isd
L
Vgs
+
VDC
-
Ig


Vgs


VDC
+
-
Vds
DUT
Vgs
Ig


Vgs
Qg
4.5V
Qgs
Qgd
Charge


L
Vds
Id
Vgs
Rg
DUT
Vgs
Vgs
+
VDC
-
Vdd


E_AR = 1/2 LI_AR^2
BV_DSS
Vds
Id
Vgs