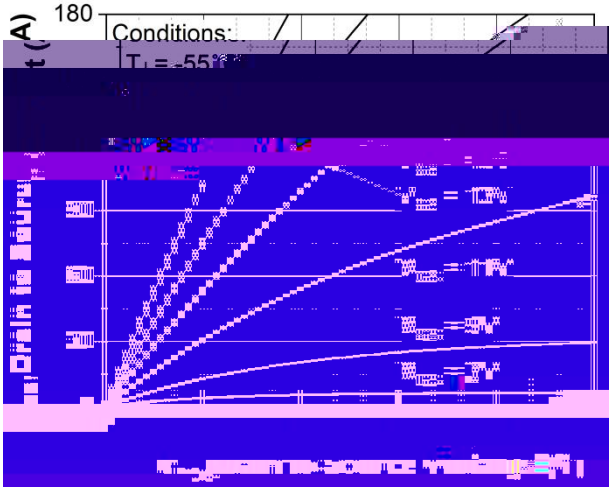
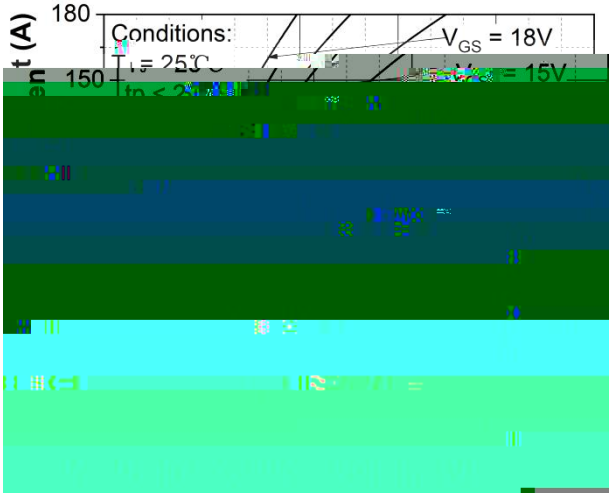
€Q

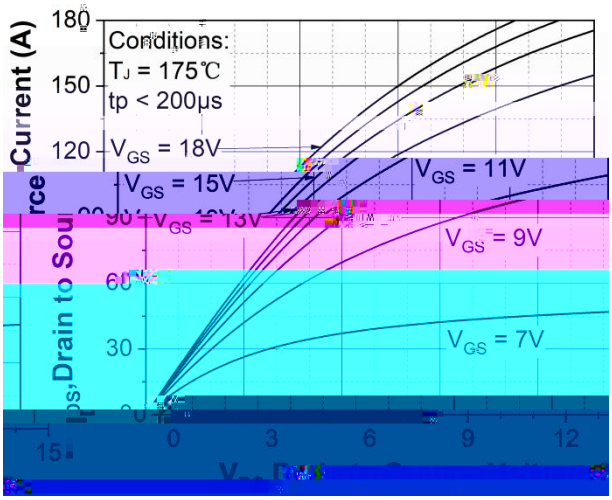


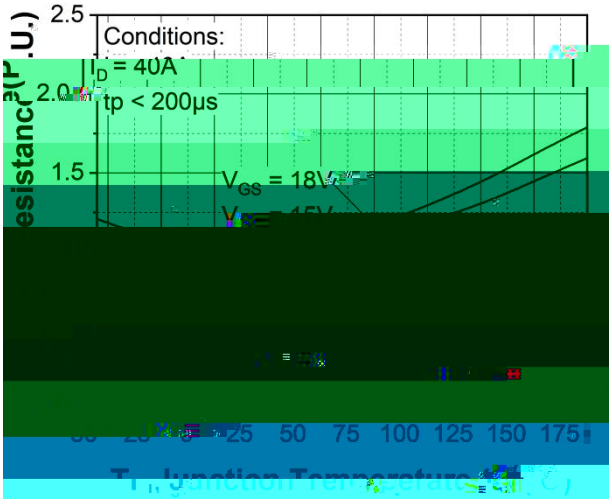
	≤				

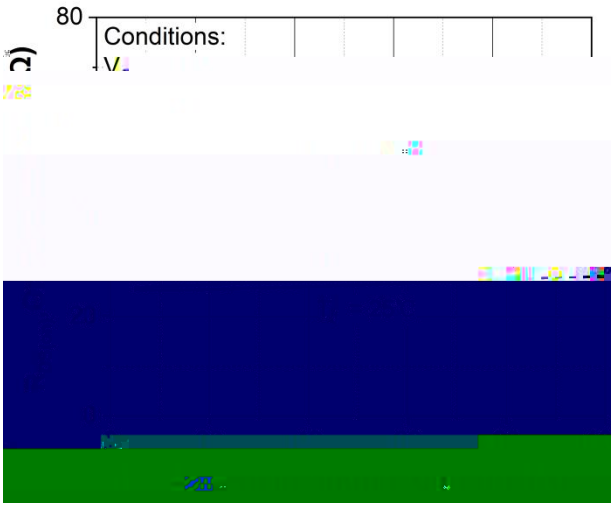


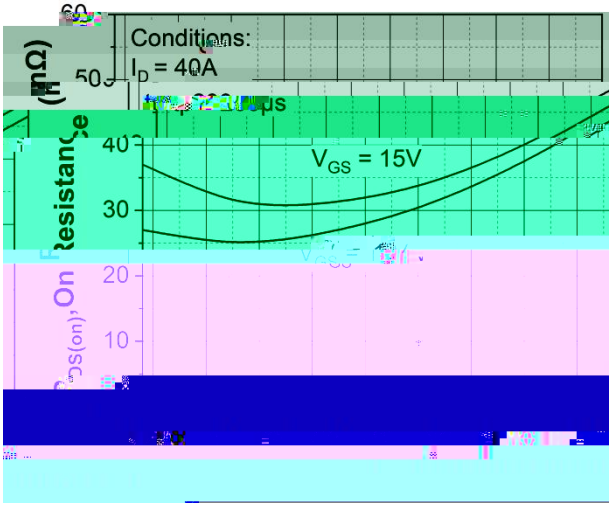

180
Conditions:

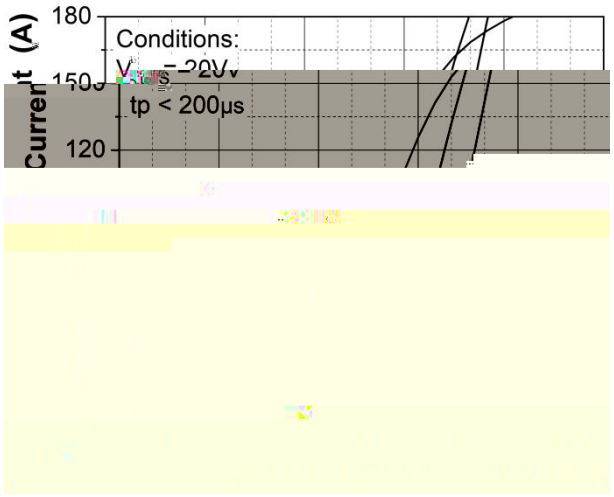

180
Conditions:
V_{GS} = 18V
150

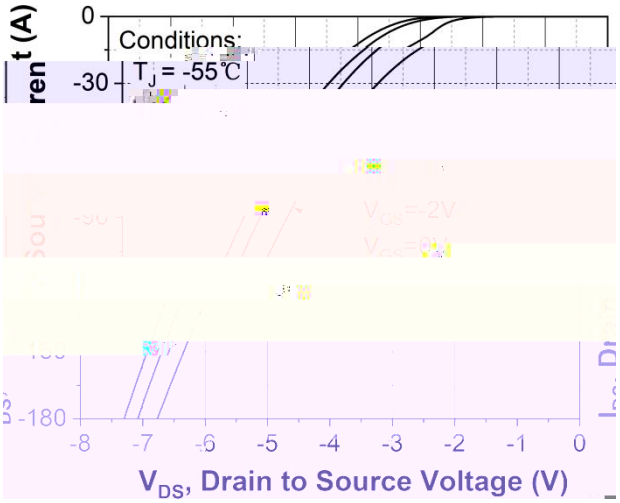

180
Conditions:
T_J = 175℃
tp < 200μs
150
120
V_{GS} = 18V
V_{GS} = 15V
V_{GS} = 11V
V_{GS} = 9V
V_{GS} = 7V
60
30
0
0
3
6
9
12
Drain to Source Current (A)

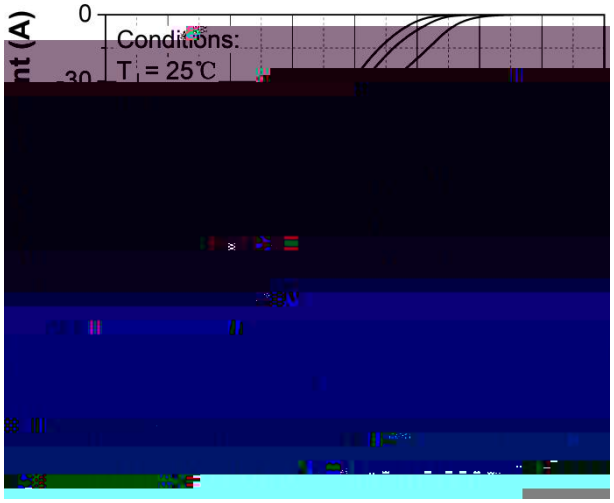

2.5
Conditions:
I_D = 40A
tp < 200μs
2.0
1.5
V_{GS} = 18V
V_{GS} = 15V
-25
50
75
100
125
150
175

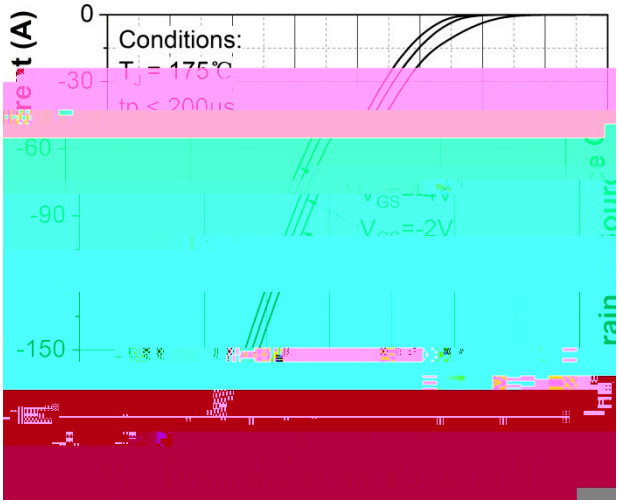

80
Conditions:

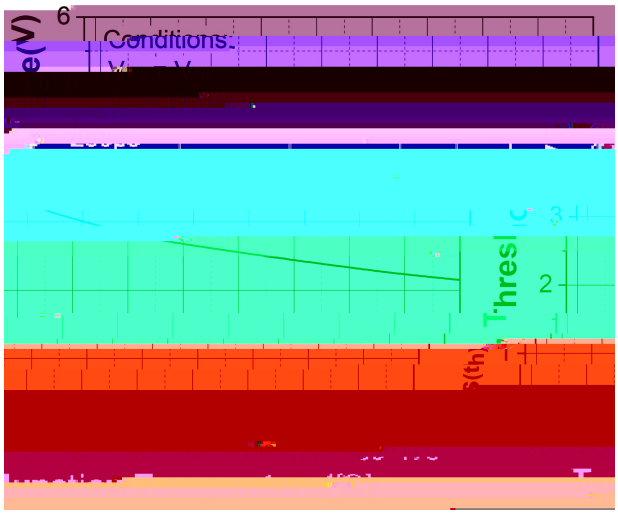

60
Conditions:
I_D = 40A
50
40
V_{GS} = 15V
30
20
10

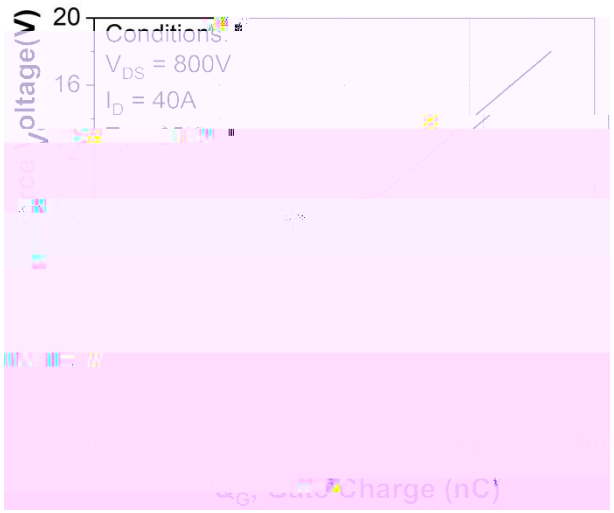

180
150
120
Conditions:
tp < 200μs

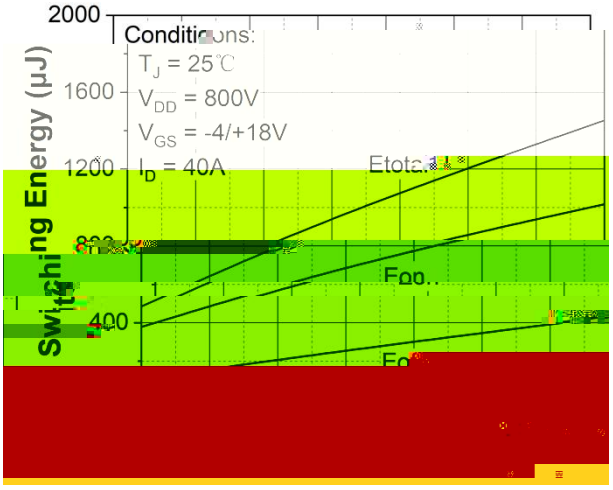

0
-30
-180
Conditions:
T_J = -55℃
-8
-7
-6
-5
-4
-3
-2
-1
0
V_DS, Drain to Source Voltage (V)

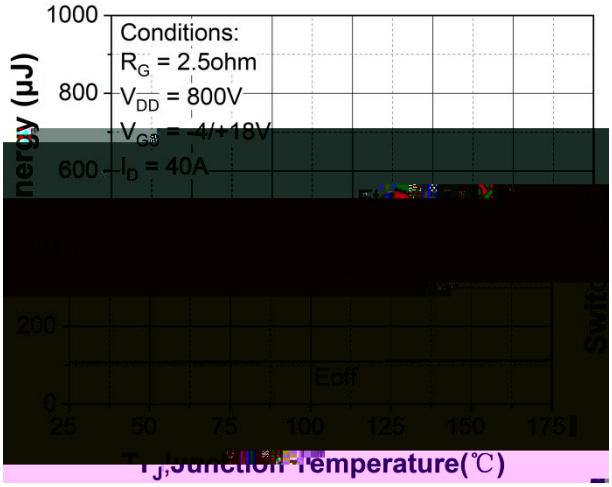

0
Conditions:
T_J = 25℃

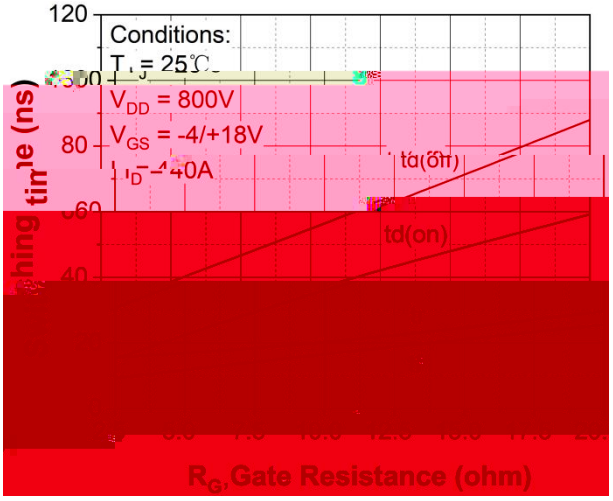

0
-30
-60
-90
-150
Conditions:
T_J = 175℃

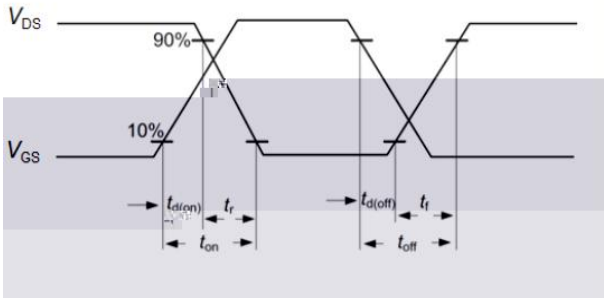

6
3
2
Conditions:

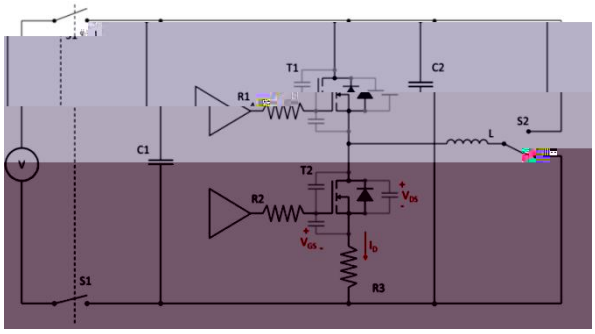

20
16
Conditions:
V_DS = 800V
I_D = 40A


Conditions:
T_J = 25℃
V_{DD} = 800V
V_{GS} = -4/+18V
I_D = 40A
2000
1600
1200
800
400
Switching Energy (μJ)


Conditions:
R_G = 2.5ohm
V_{DD} = 800V
V_{GS} = -4/+18V
I_D = 40A
1000
800
600
200
0
Eoff
25
50
75
100
125
150
175
T_J,Junction Temperature(℃)


Conditions:
T_J = 25℃
V_{DD} = 800V
V_{GS} = -4/+18V
I_D = 40A
120
80
60
40
td(off)
td(on)
R_G,Gate Resistance (ohm)


V_{DS}
90%
10%
V_{GS}
$t_{d(on)}$
t_r
t_{on}
$t_{d(off)}$
t_f
t_{off}


T1
C2
R1
S2
L
C1
V
T2
R2
V_{DS}
I_D
S1
R3