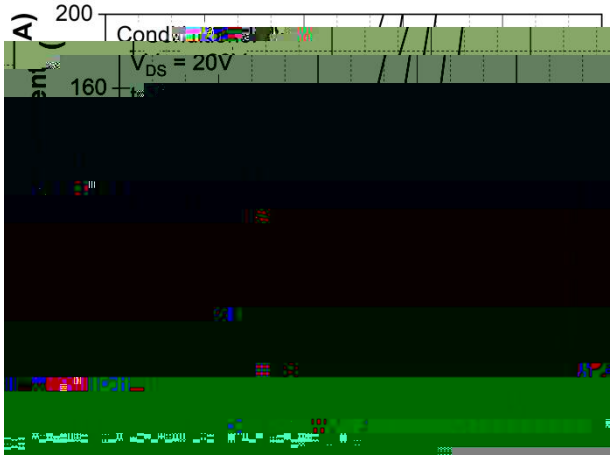
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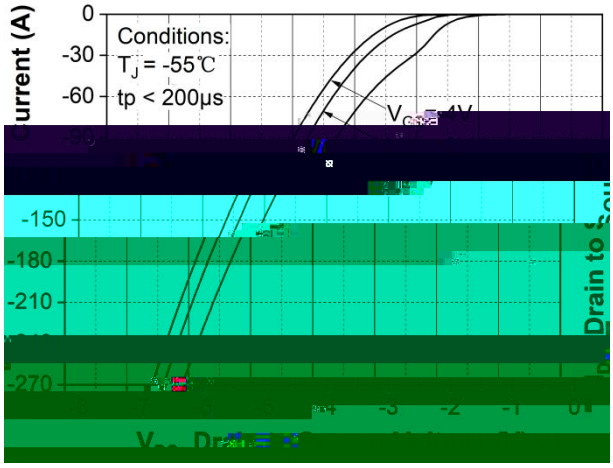
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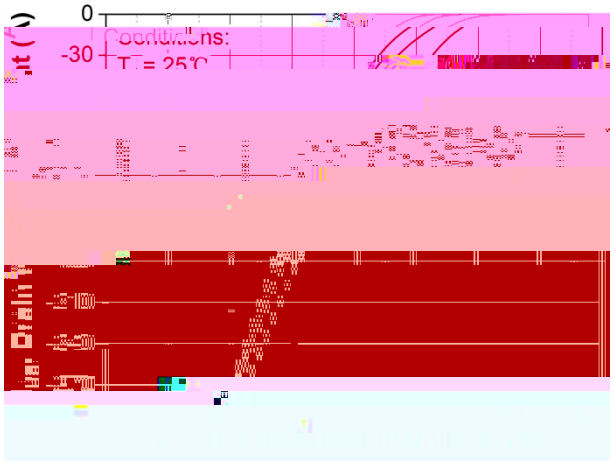

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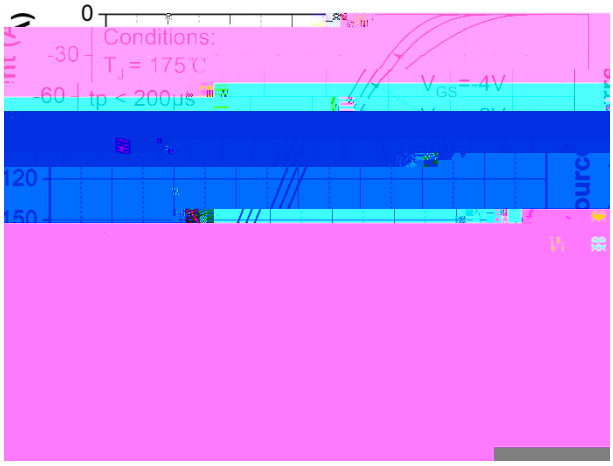
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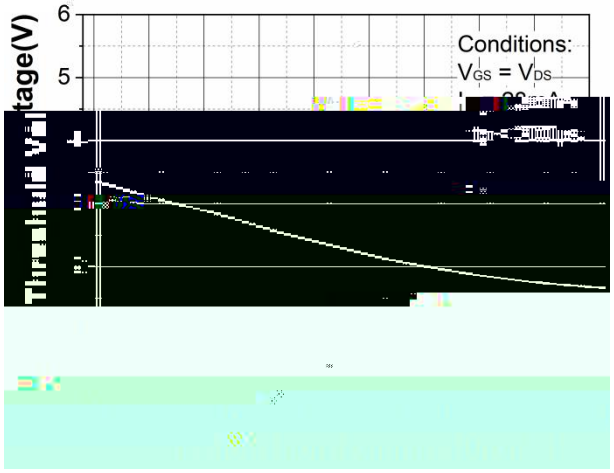
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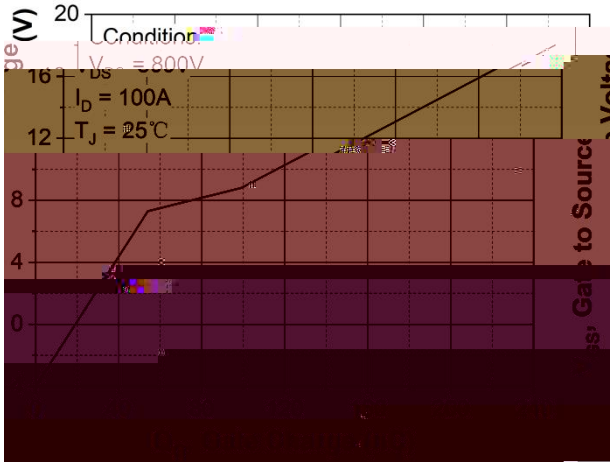

200
160
$V_{DS}$ = 20V

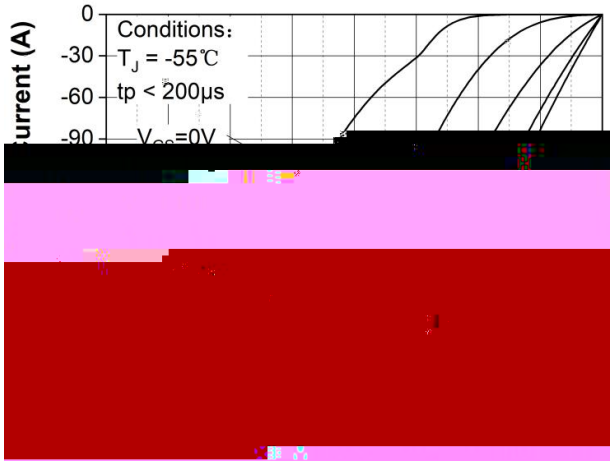

0
-30
-60
-150
-180
-210
-270
Conditions:
$T_J$ = -55℃
tp < 200μs
$V_{GS}$ = -4V
Drain to

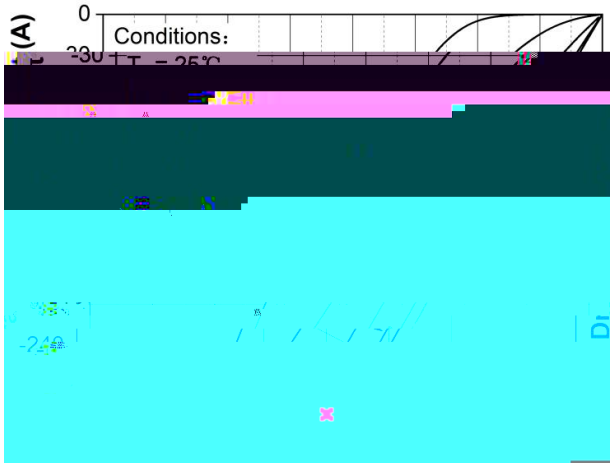

0
-30
Conditions:

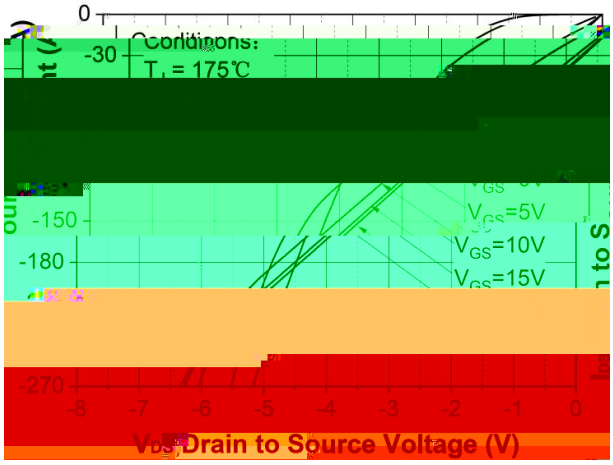

0
-30
-60
Conditions:
$T_J$ = 175℃
tp < 200μs
$V_{GS}$ = -4V

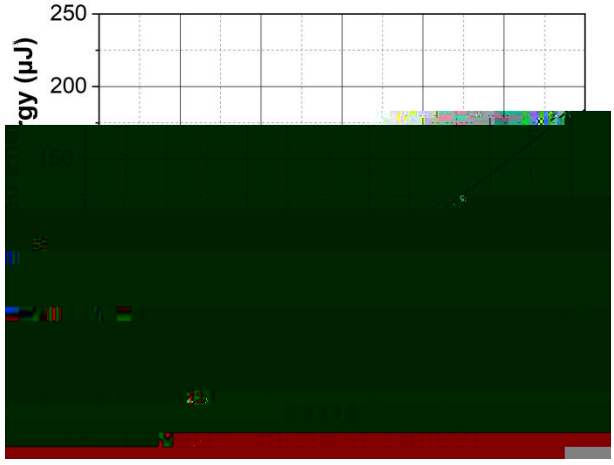

6
5
Conditions:
$V_{GS}$ = $V_{DS}$

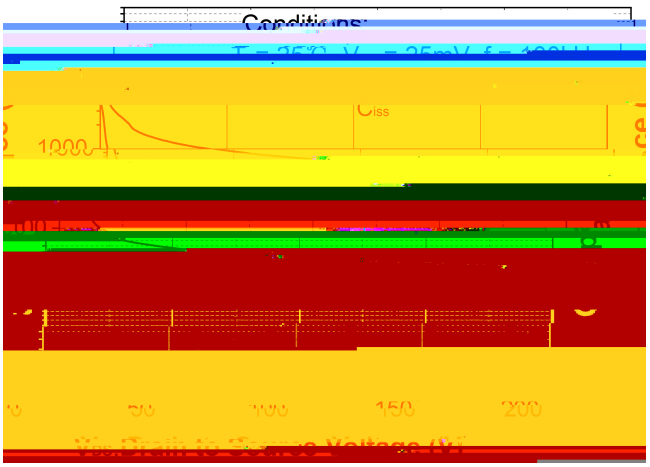

20
16
12
8
4
0
$I_D$ = 100A
$T_J$ = 25℃

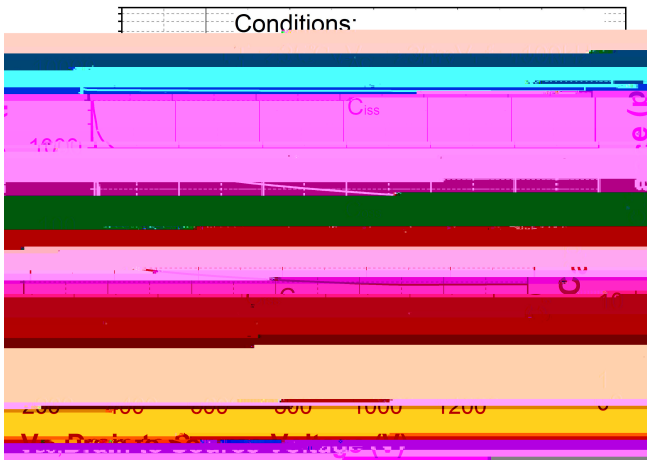

Conditions:
$T_J$ = -55℃
tp < 200μs
$V_{GS}$=0V

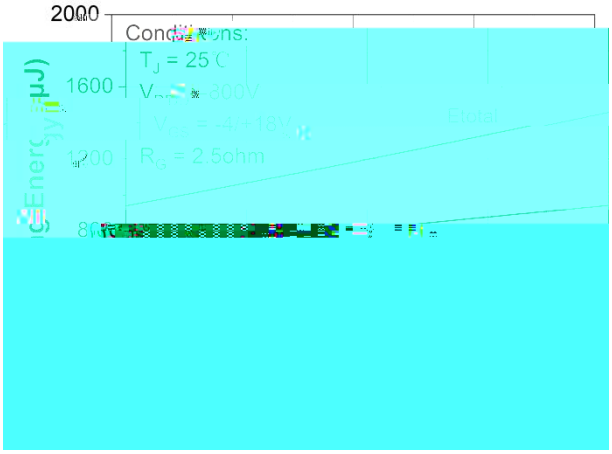

Conditions:

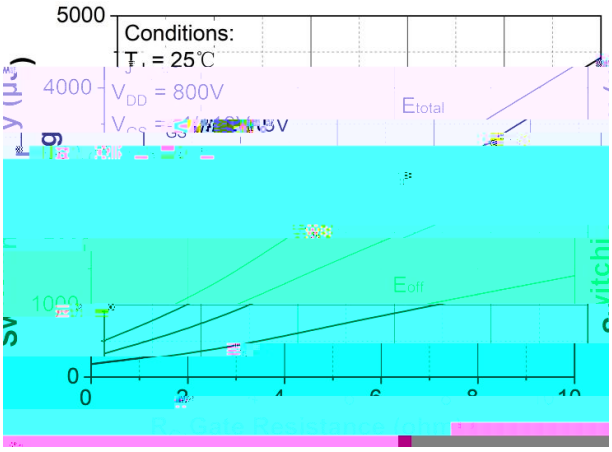

Conditions:
$T_J$ = 175℃
$V_{GS}$=5V
$V_{GS}$=10V
$V_{GS}$=15V
$V_{DS}$, Drain to Source Voltage (V)

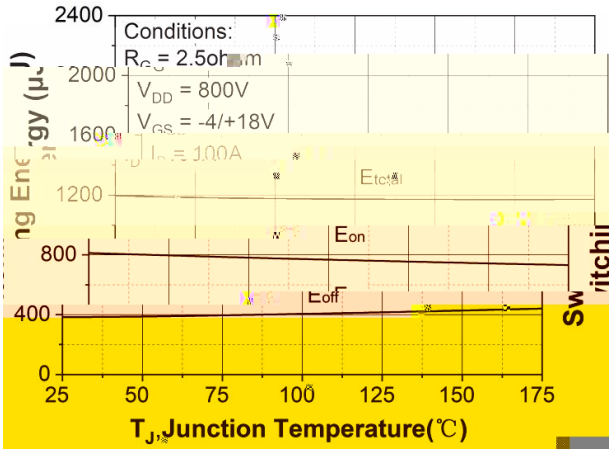


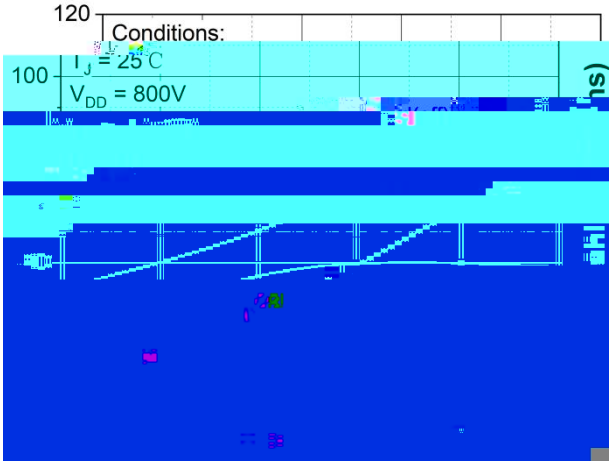

Ciss

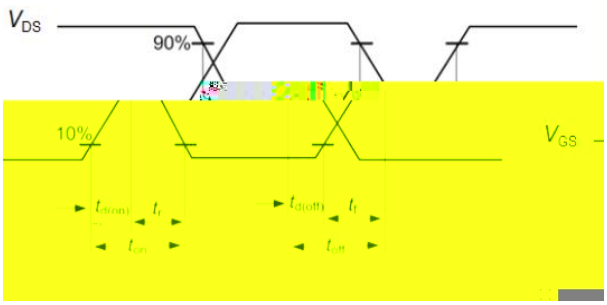

Conditions:
Ciss

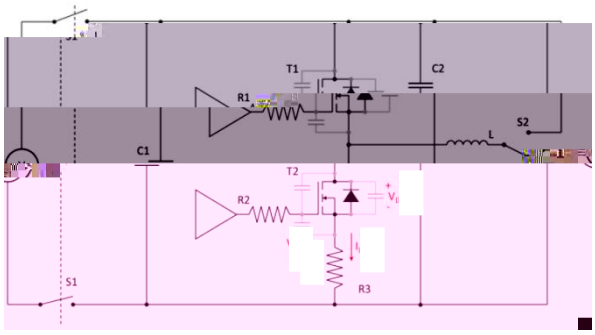

2000
1600
1200
Etotal

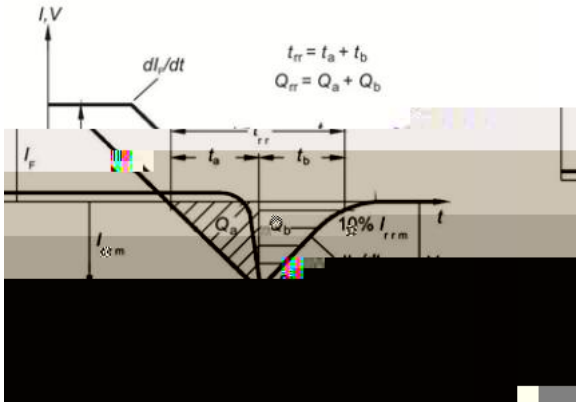

5000
Conditions:
4000
$V_{DD}$ = 800V
Etotal
Eoff
1000
0
0
2
4
6
8
10


2400
Conditions:
$R_{G_ext}$ = 2.5ohm
2000
$V_{DD}$ = 800V
$V_{GS}$ = -4/+18V
1600
$I_D$ = 100A
Etotal
1200
Eon
800
Eoff
400
0
25
50
75
100
125
150
175
$T_J$,Junction Temperature(℃)


120
Conditions:
$T_J$ = 25℃
100
$V_{DD}$ = 800V


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


T1
C2
R1
S2
L
C1
T2
R2
R3
S1


I,V
$dI_F/dt$
$t_{rr} = t_a + t_b$
$Q_{rr} = Q_a + Q_b$
$I_F$
$t_a$
$t_b$
$Q_a$
$Q_b$
10% $I_{rrm}$
t
$I_{rrm}$