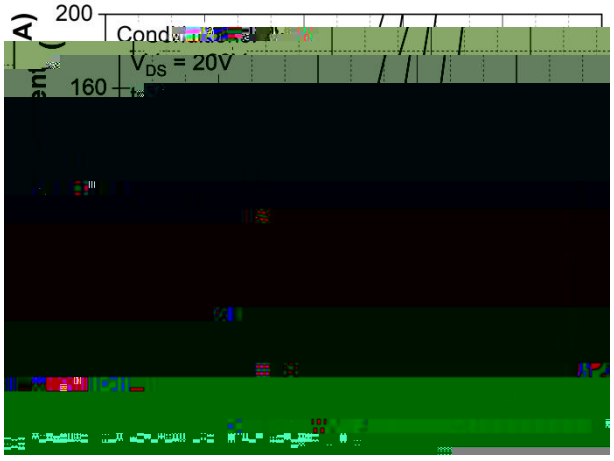
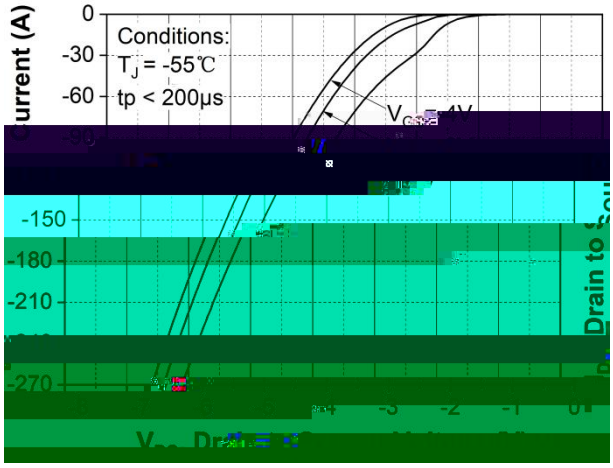
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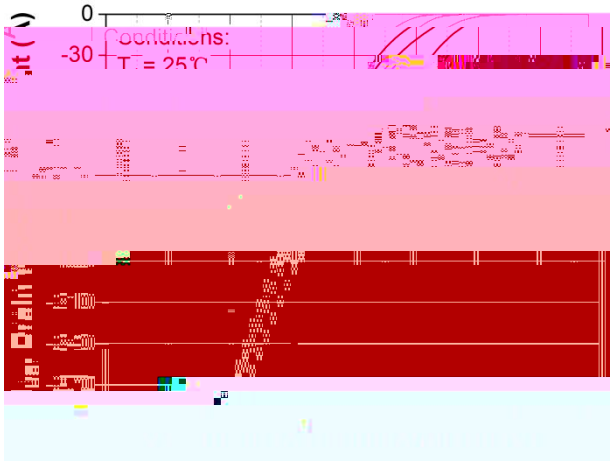
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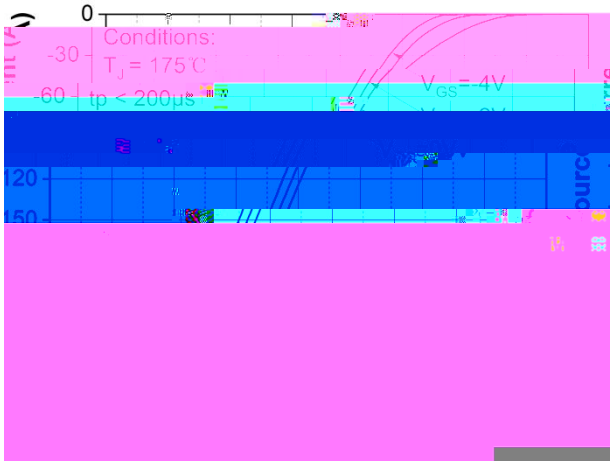

F
Cl
Halogen-Free
Br
I

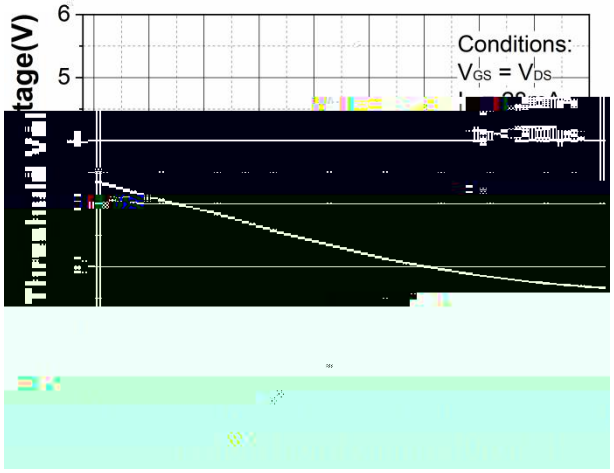
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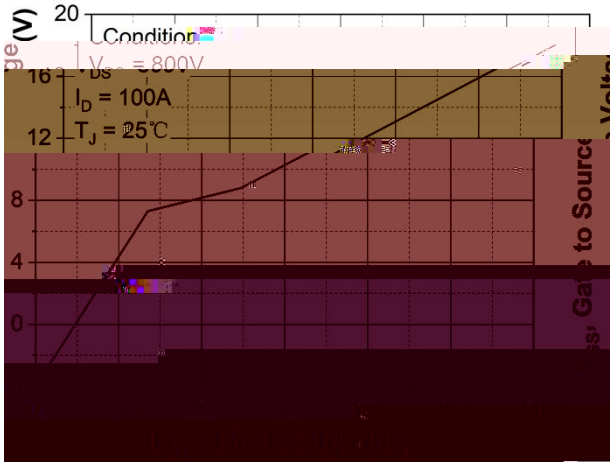

200
160
V_{DS} = 20V

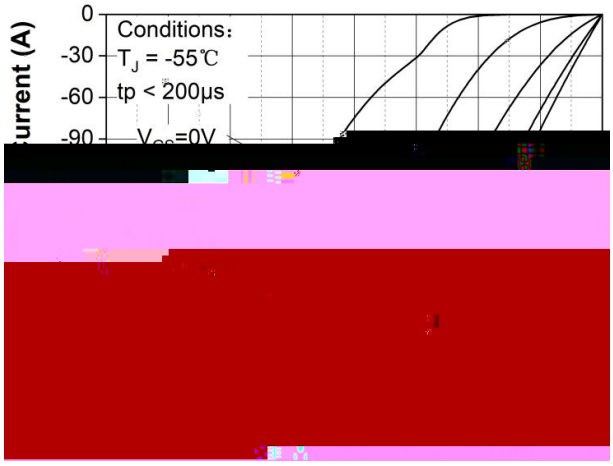

0
-30
-60
-150
-180
-210
-270
Conditions:
T_J = -55℃
tp < 200μs
V_{GS} = -4V
Drain to

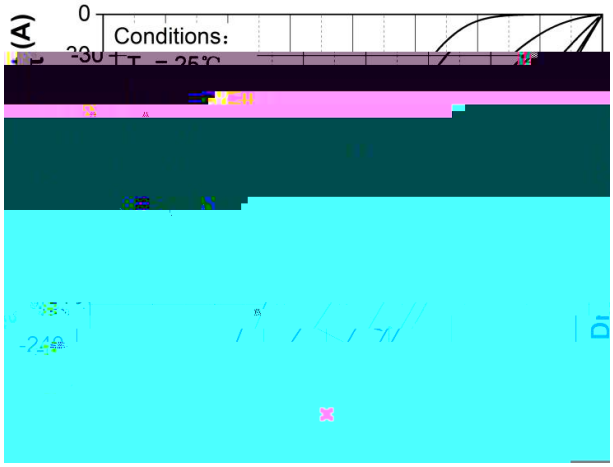

0
-30
Conditions:

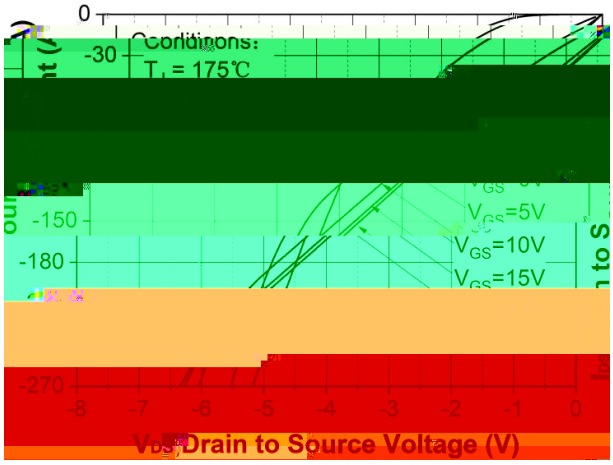

0
-30
-60
Conditions:
T_J = 175℃
tp < 200μs
V_{GS} = -4V

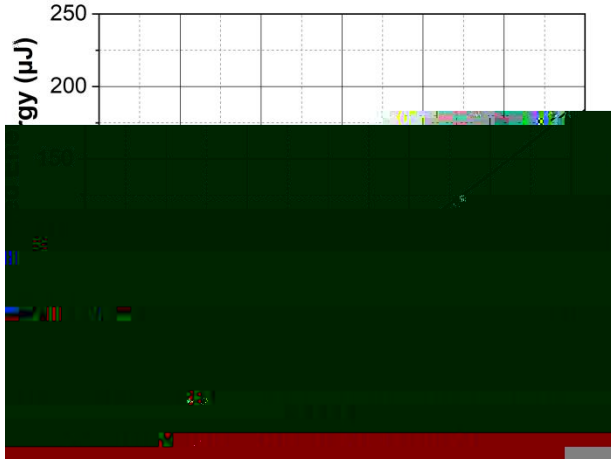

6
5
Conditions:
V_{GS} = V_{DS}

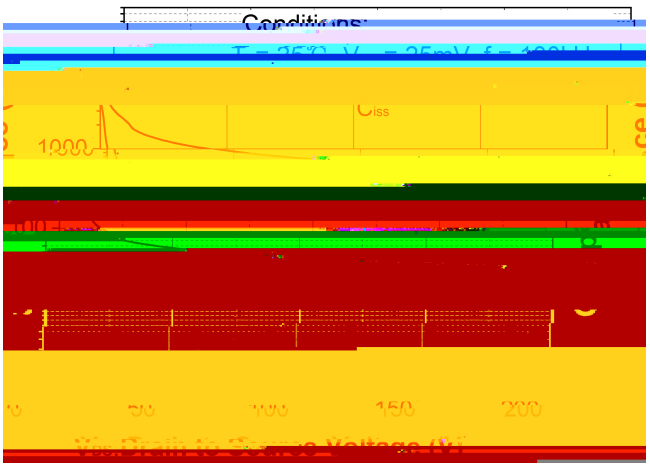

20
16
12
8
4
0
I_D = 100A
T_J = 25℃

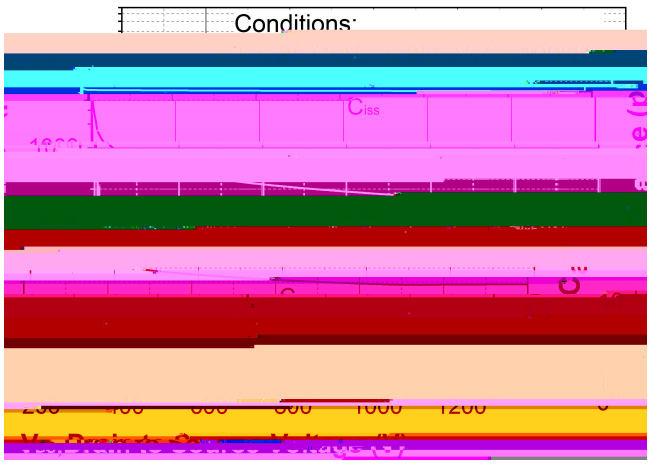

Conditions:
T_J = -55℃
tp < 200μs
V_{GS}=0V

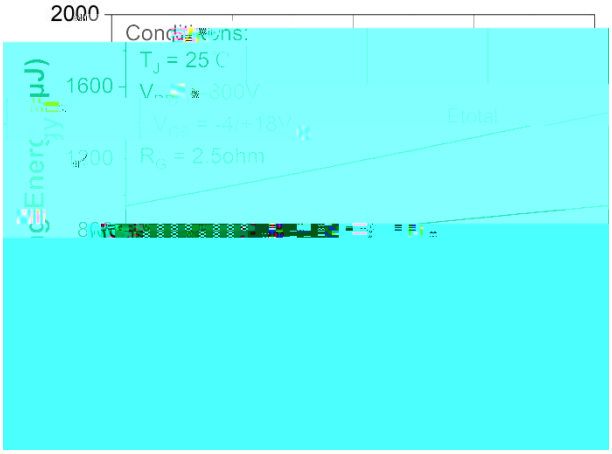

Conditions:

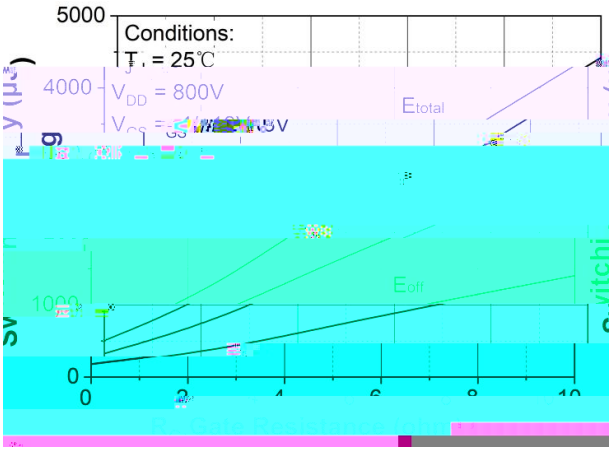

Conditions:
T_J = 175℃
V_{GS}=5V
V_{GS}=10V
V_{GS}=15V
V_{DS}, Drain to Source Voltage (V)

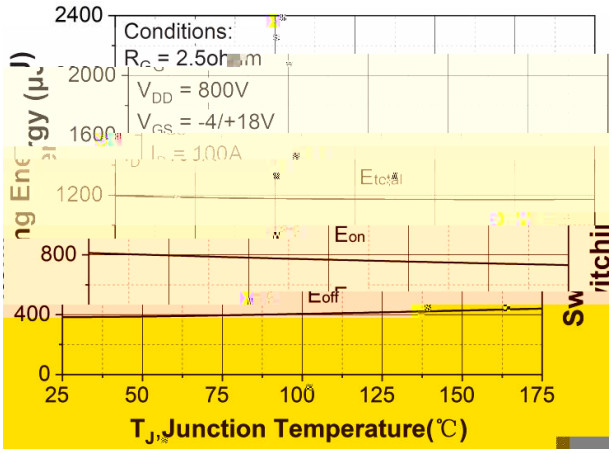


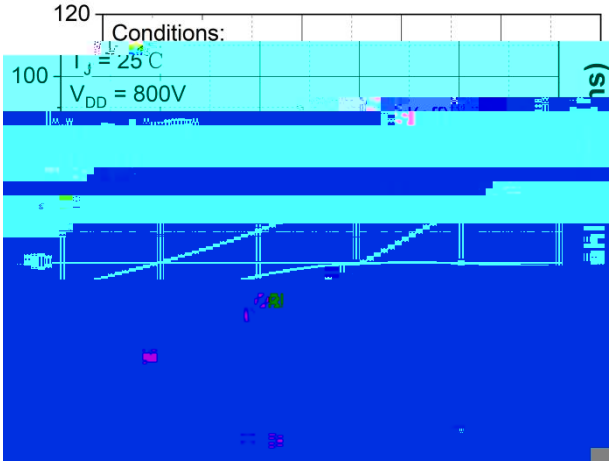

Ciss

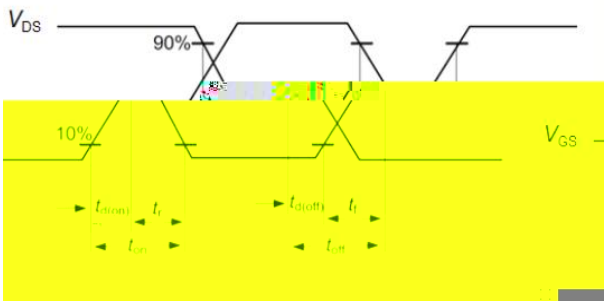

Conditions:
Ciss

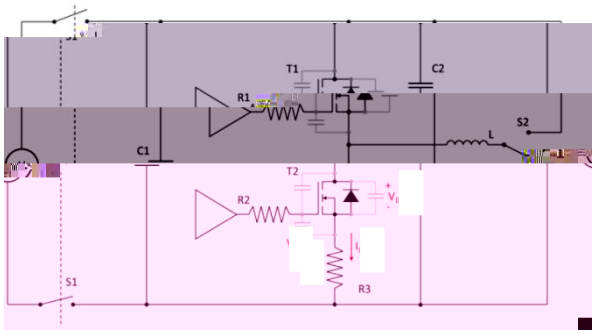

2000
1600
1200
Etotal

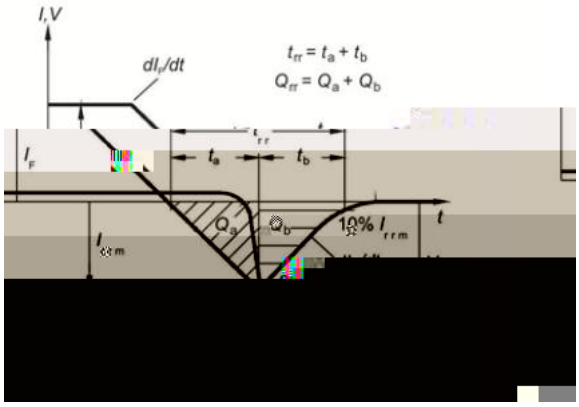

5000
Conditions:
4000
V_{DD} = 800V
Etotal
Eoff
1000
0
0
2
4
6
8
10


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}