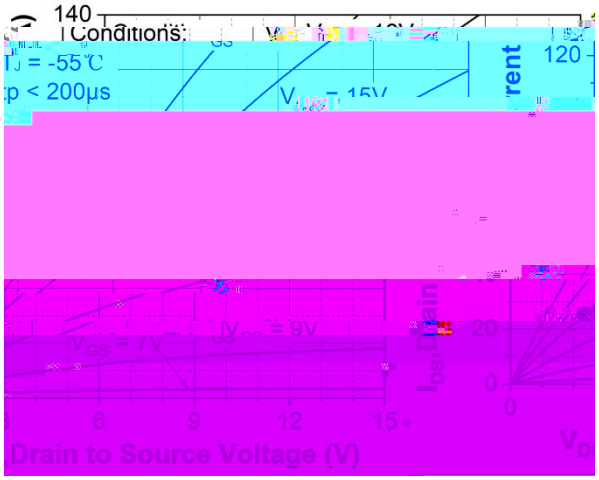
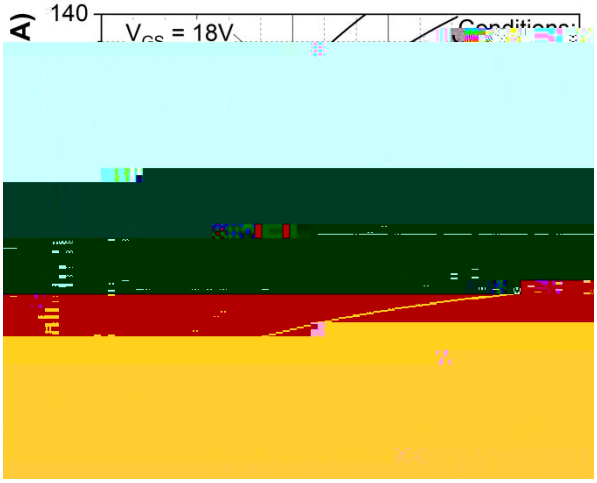
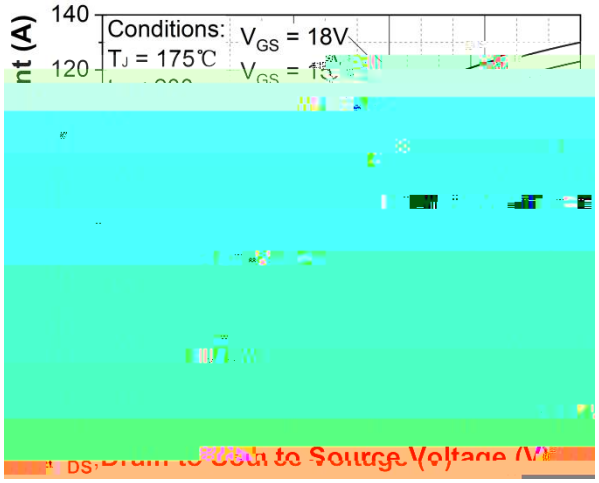
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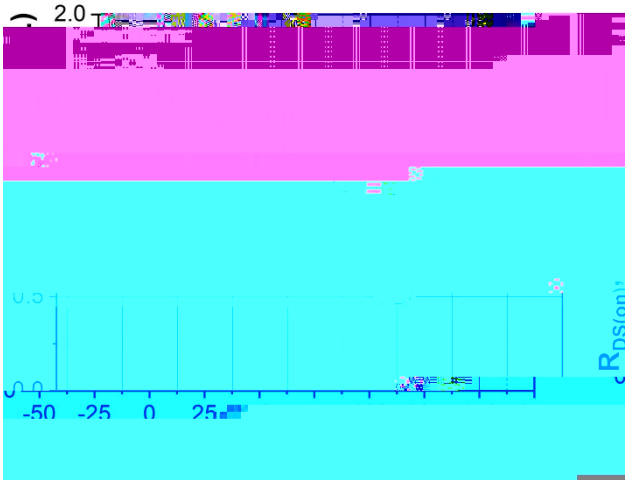

F
Cl
Halogen-Free
Br
I

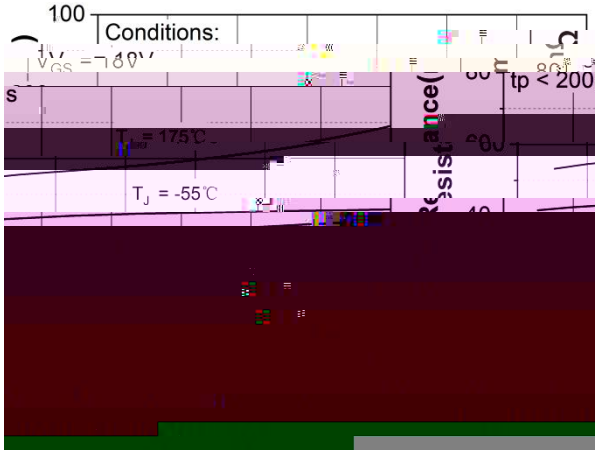
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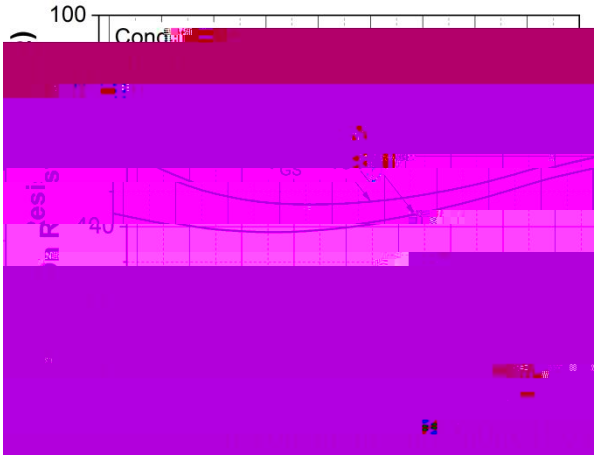

140
Conditions:
T_J = -55℃
tp < 200μs
120
rent
20
0
6
9
12
15
Drain to Source Voltage (V)

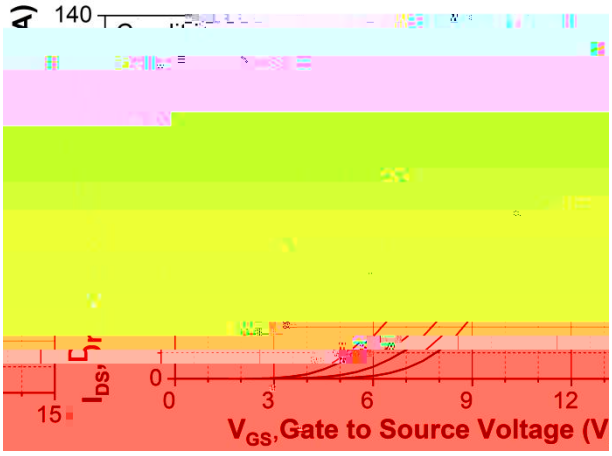

140
V_{GS} = 18V
Conditions:

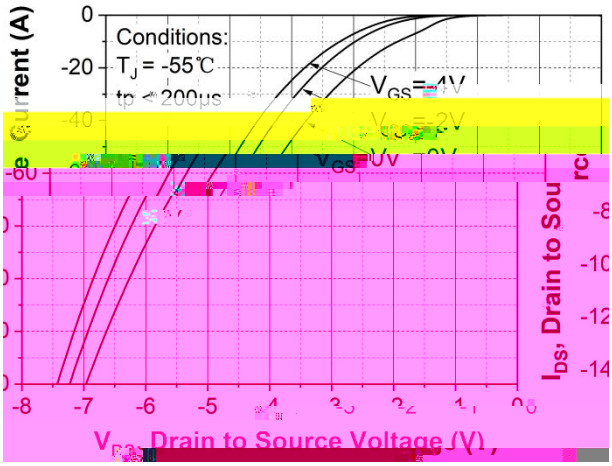

140
Conditions:
T_J = 175℃
V_{GS} = 18V
120
nt (A)

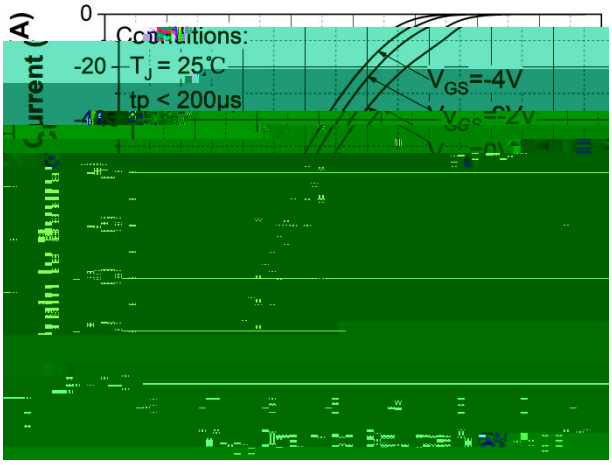

2.0
-50
-25
0
25

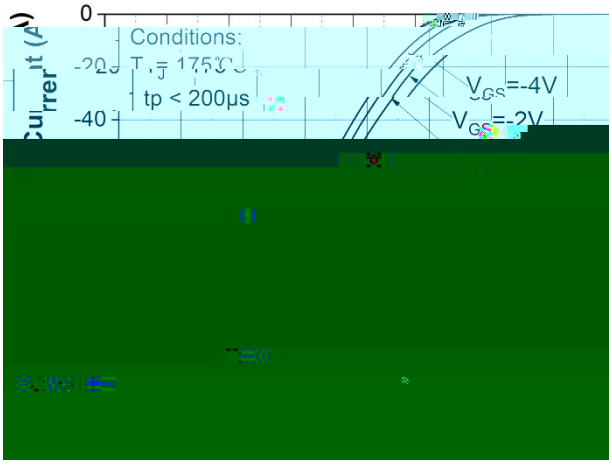

100
Conditions:
tp < 200
T_J = 175℃
T_J = -55℃

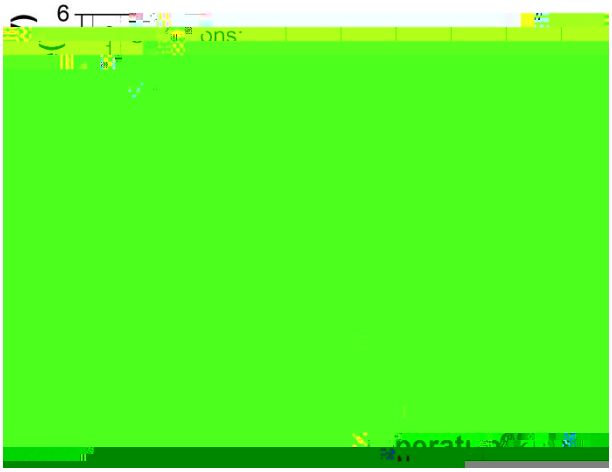

100

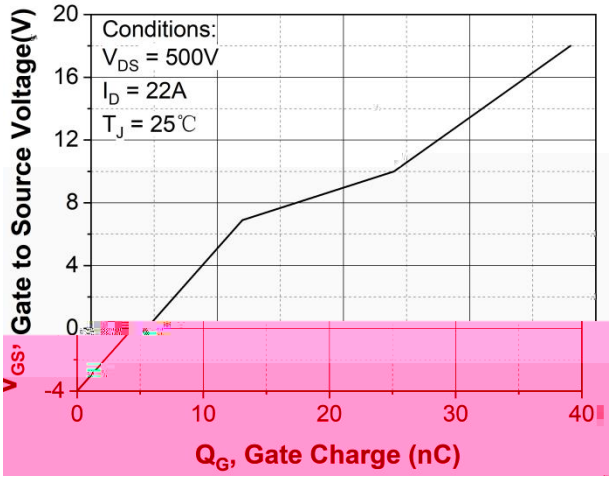

140
15
0
0
3
6
9
12
V_{GS}, Gate to Source Voltage (V

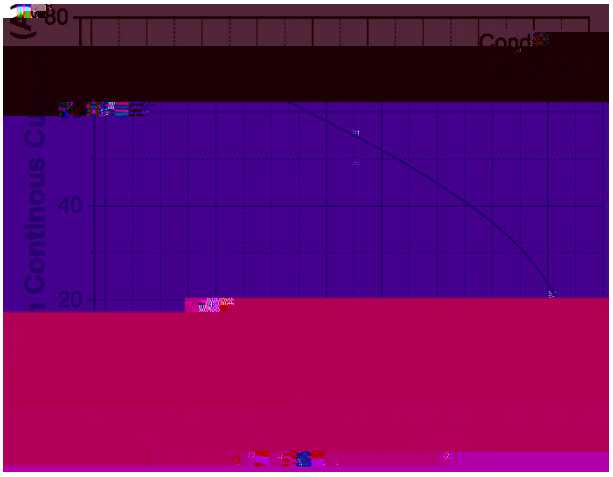

0
-20
-40
-60
Conditions:
T_J = -55℃
tp < 200μs
V_{GS}=-4V
V_{GS}=-2V
V_{GS}=0V
-8
-7
-6
-5
-10
-12
-14
I_{DS}, Drain to Sou
V_{DS}, Drain to Source Voltage (V)

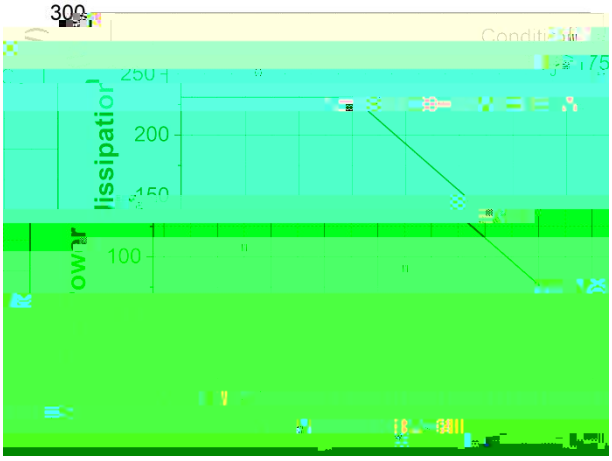

0
-20
-40
Conditions:
T_J = 25℃
tp < 200μs
V_{GS}=-4V
V_{GS}=-2V

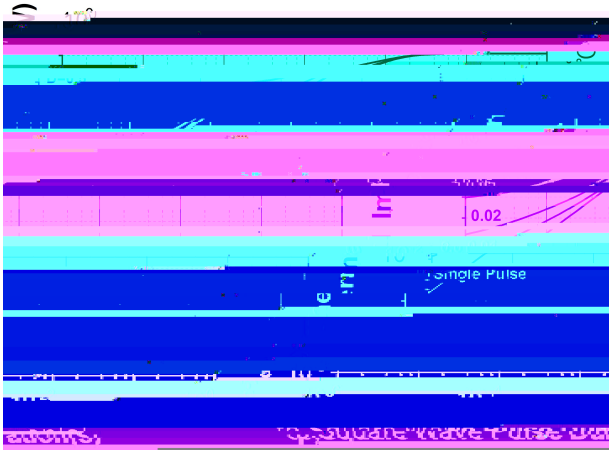

0
-40
Conditions:
tp < 200μs
V_{GS}=-4V
V_{GS}=-2V

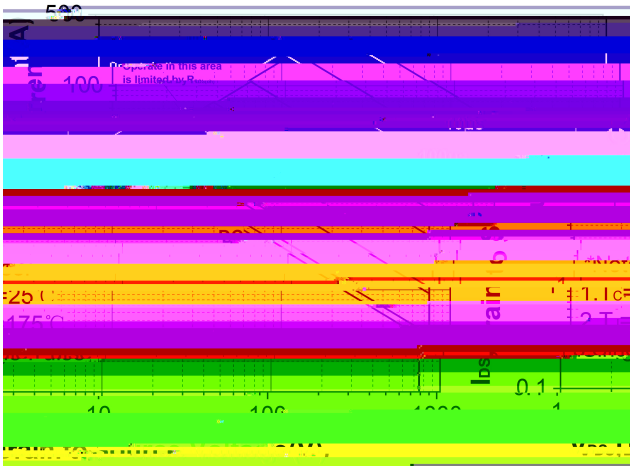

6
ons:

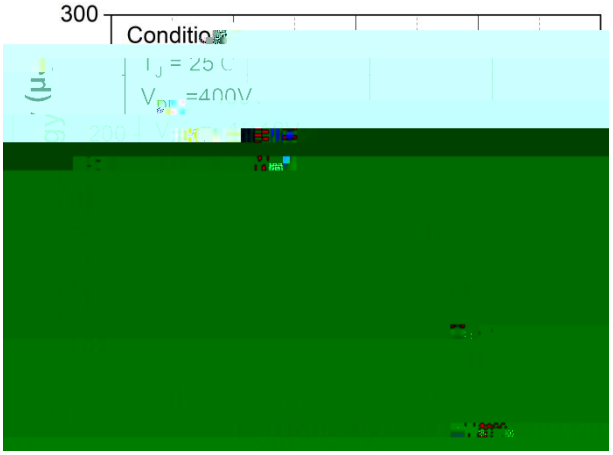

20
16
12
8
4
0
-4
Conditions:
V_{DS} = 500V
I_D = 22A
T_J = 25℃
Gate to Source Voltage(V)
V_{GS},
0
10
20
30
40
Q_G, Gate Charge (nC)

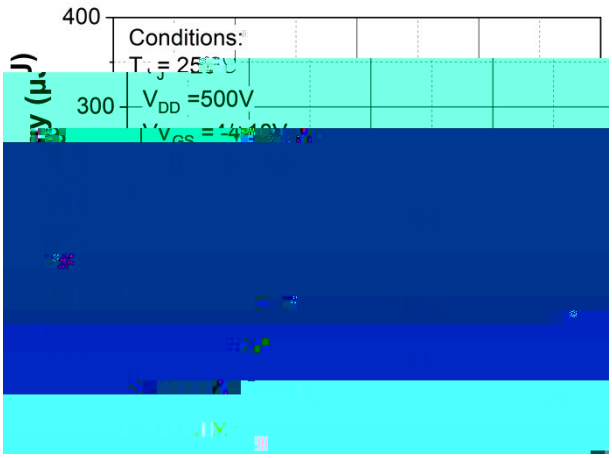

80
40
20

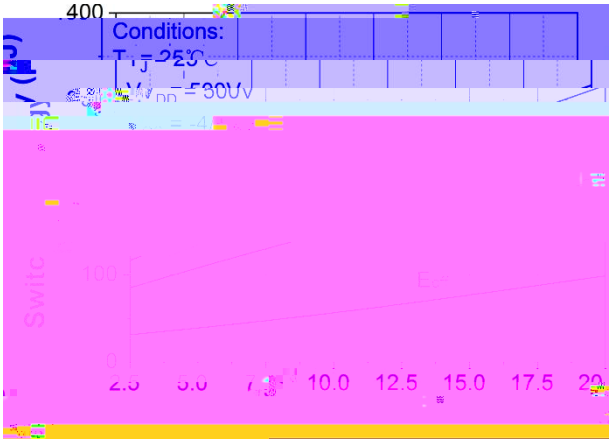

300
250
200
100

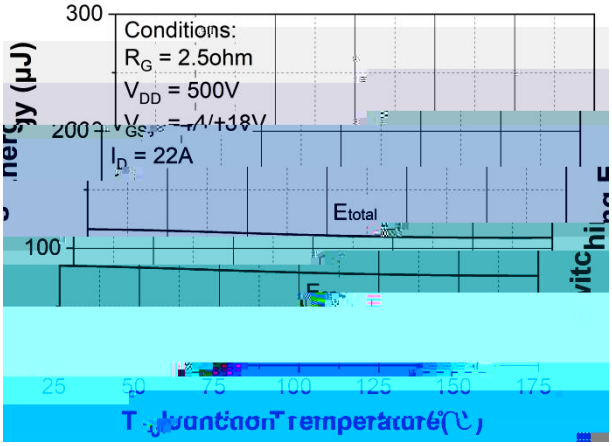

0.02
Single Pulse

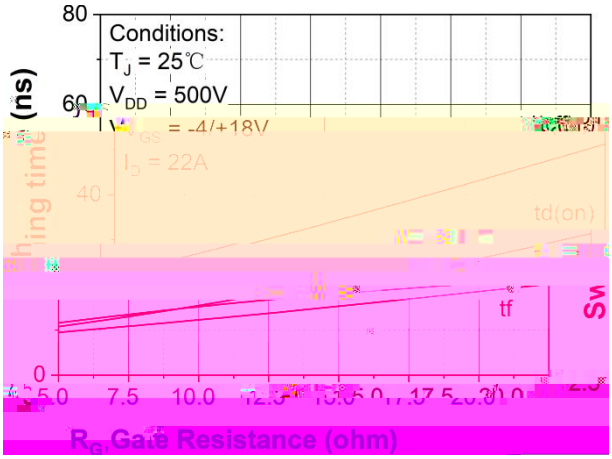

100
0.1

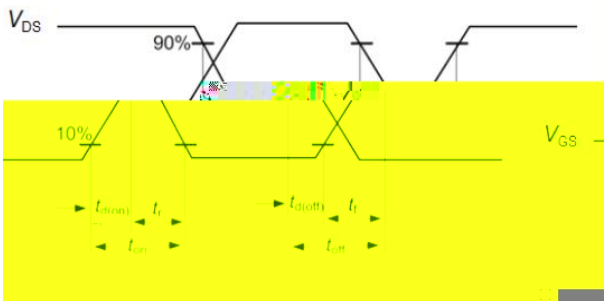

300
Conditio
=400V

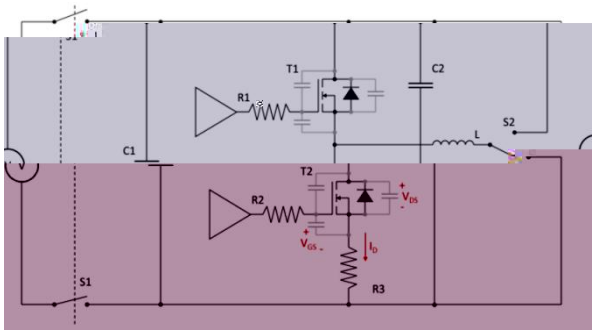

400
Conditions:
300
V_{DD} =500V


400
Conditions:
100
0
2.5
5.0
10.0
12.5
15.0
17.5


300
Conditions:
R_G = 2.5ohm
V_{DD} = 500V
I_D = 22A
200
100
E_{total}
25
50
75
100
125
150
175


80
Conditions:
T_J = 25℃
V_{DD} = 500V
60
I_D = 22A
40
td(on)
tf
0
7.5
10.0


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
V_{DS}
V_{DS}
I_D
R3
S1