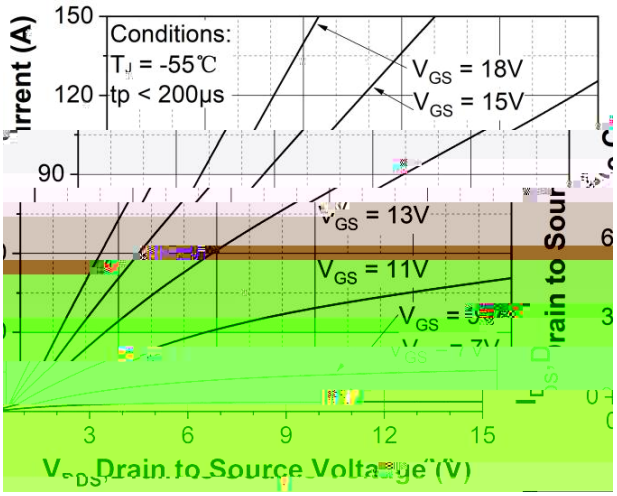
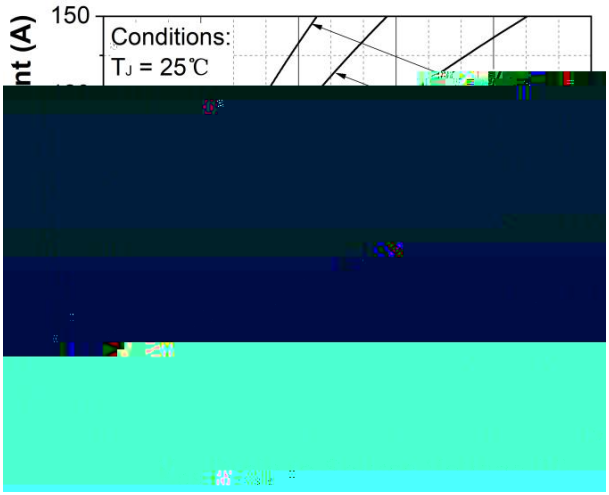
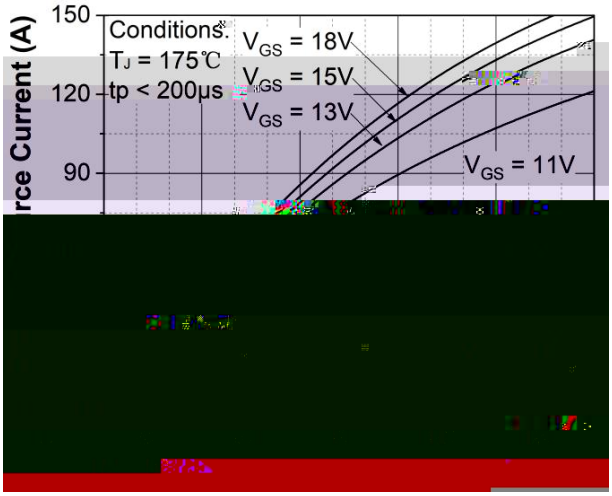

0 uv

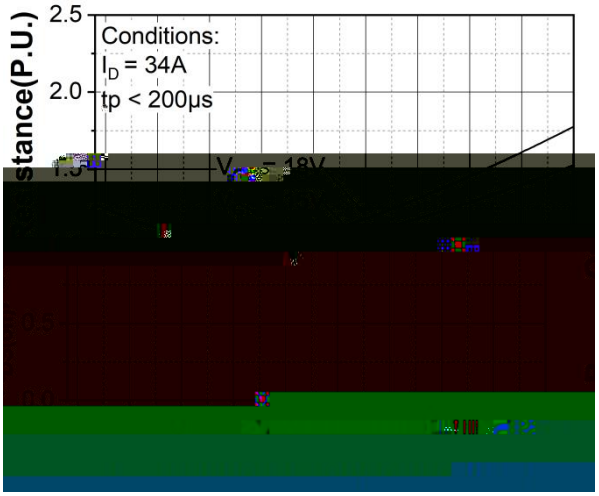
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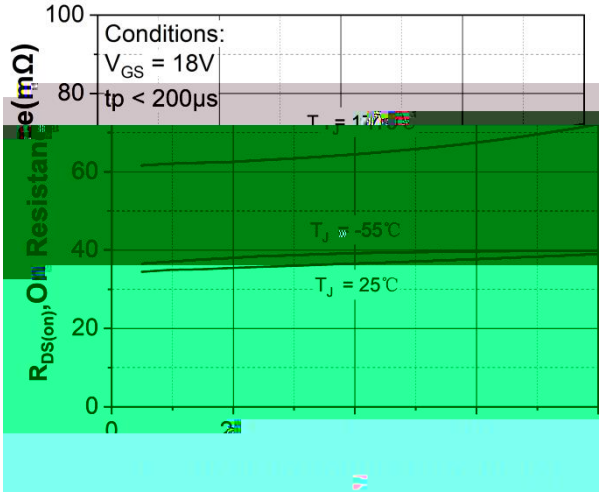


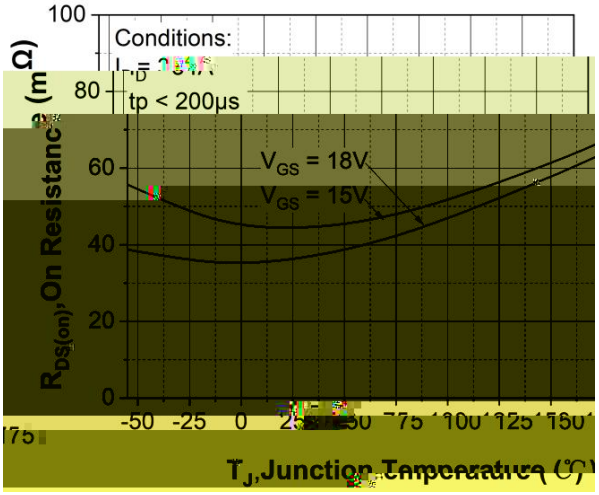

Conditions:
T_J = -55℃
tp < 200μs
V_{GS} = 18V
V_{GS} = 15V
V_{GS} = 13V
V_{GS} = 11V
150
120
90
3
6
9
12
15
V_{DS},Drain to Source Voltage (V)

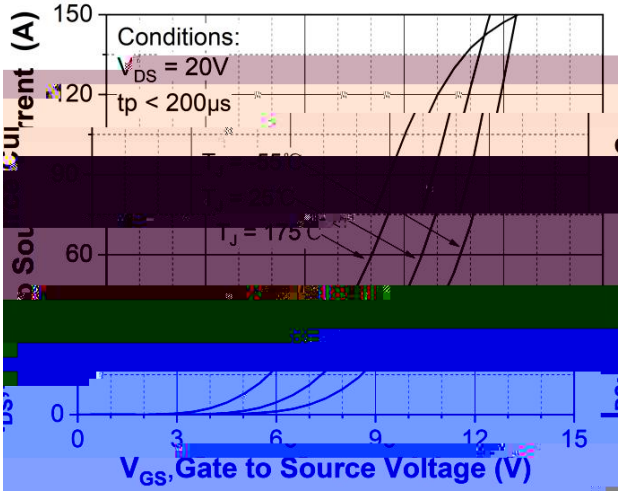

Conditions:
T_J = 25℃
150

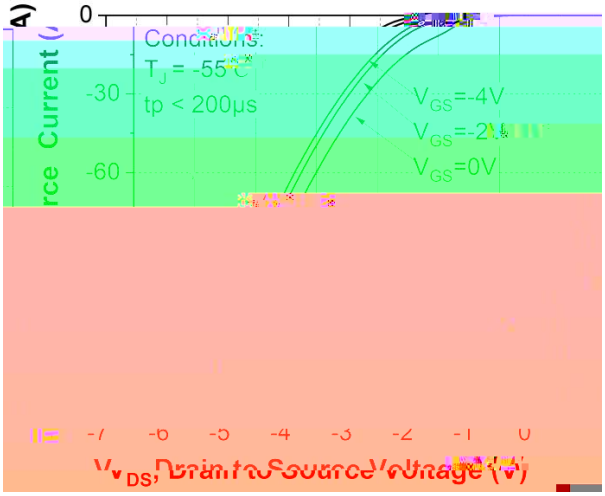

Conditions:
T_J = 175℃
tp < 200μs
V_{GS} = 18V
V_{GS} = 15V
V_{GS} = 13V
V_{GS} = 11V
150
120
90

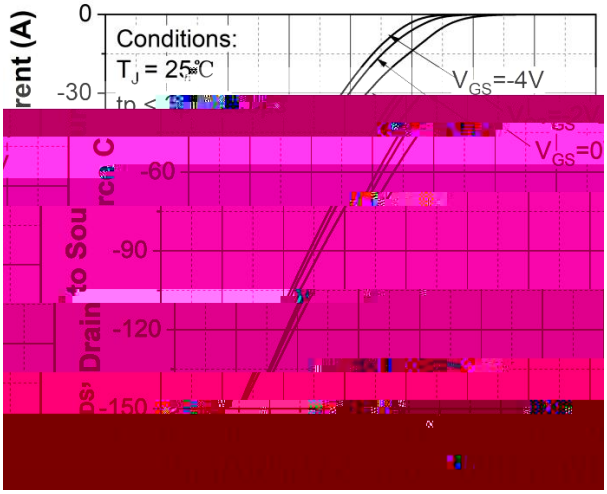

Conditions:
I_D = 34A
tp < 200μs
2.5
2.0

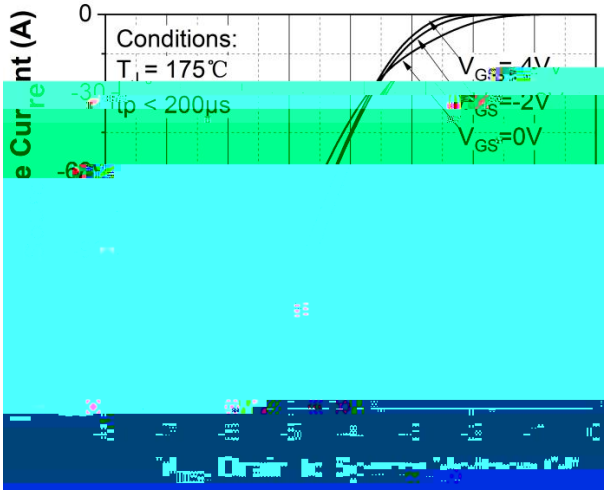

Conditions:
V_{GS} = 18V
tp < 200μs
100
80
60
40
20
0
T_J = -55℃
T_J = 25℃

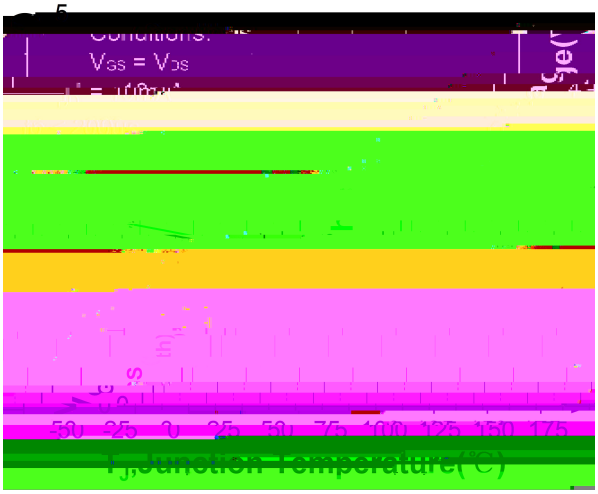

Conditions:
tp < 200μs
100
80
60
40
20
0
V_{GS} = 18V
V_{GS} = 15V
-50
-25
0
T_J,Junction Temperature (℃)

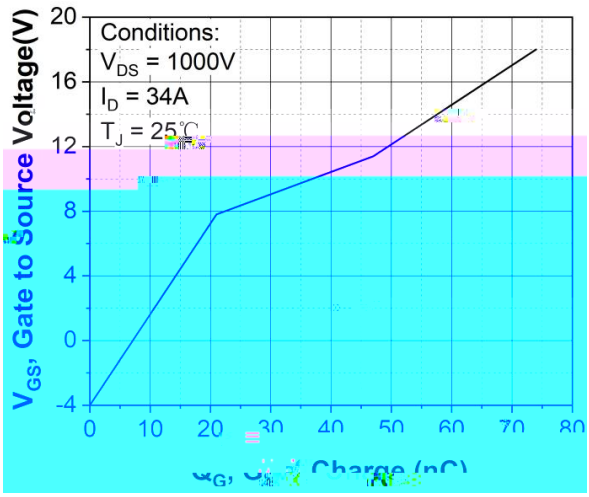

Conditions:
V_{DS} = 20V
tp < 200μs
T_J = 175℃
V_{GS},Gate to Source Voltage (V)

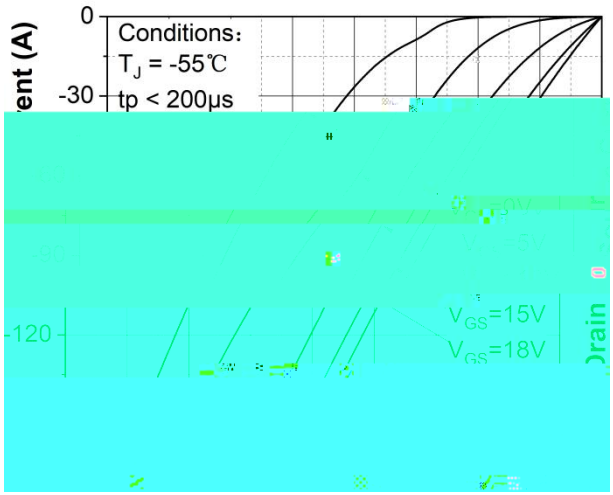

Conditions:
T_J = -55℃
tp < 200μs
V_{GS}=-4V
V_{GS}=-2V
V_{GS}=0V
V_{DS}, Drain to Source Voltage (V)

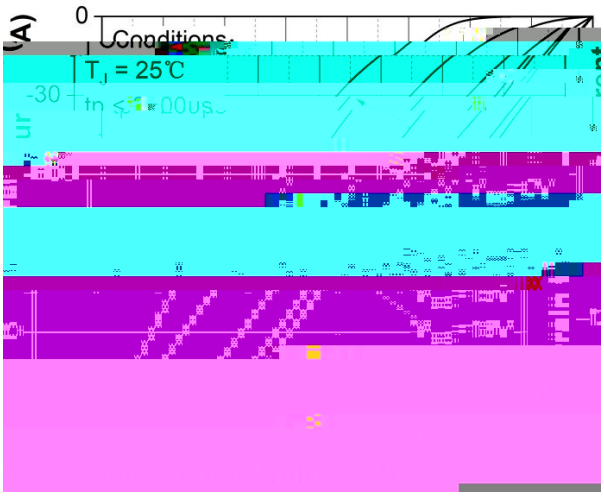

Conditions:
T_J = 25℃
V_{GS}=-4V
V_{GS}=0

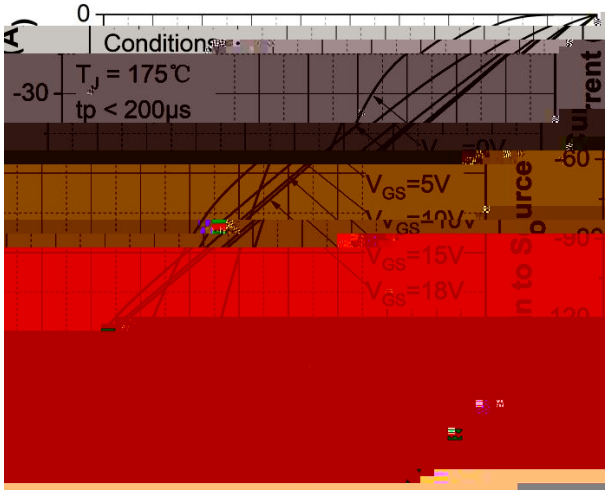

Conditions:
T_J = 175℃
tp < 200μs
V_{GS}=-2V
V_{GS}=0V

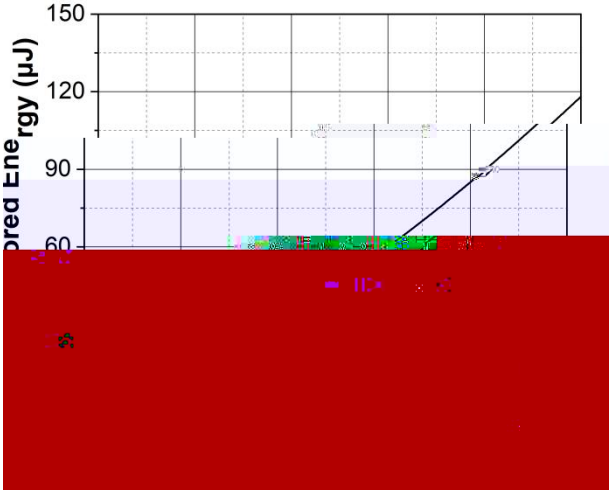

V_{GS} = V_{DS}
T_J,Junction Temperature(℃)

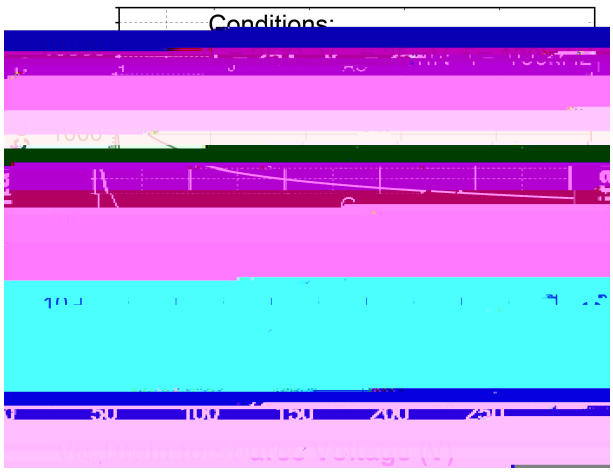

Conditions:
V_{DS} = 1000V
I_D = 34A
T_J = 25℃
V_{GS}, Gate to Source Voltage(V)
Q_G, Charge (nC)

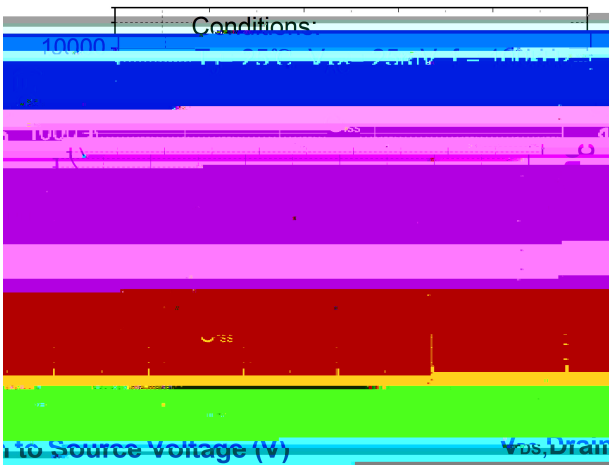

Conditions:
T_J = -55℃
tp < 200μs
V_{GS}=15V
V_{GS}=18V

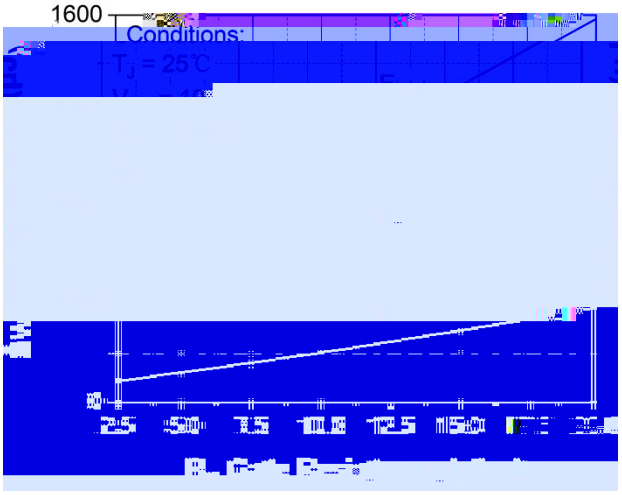

Conditions:
T_J = 25℃


Conditions:
T_J = 175℃
tp < 200μs
V_{GS}=5V
V_{GS}=15V
V_{GS}=18V

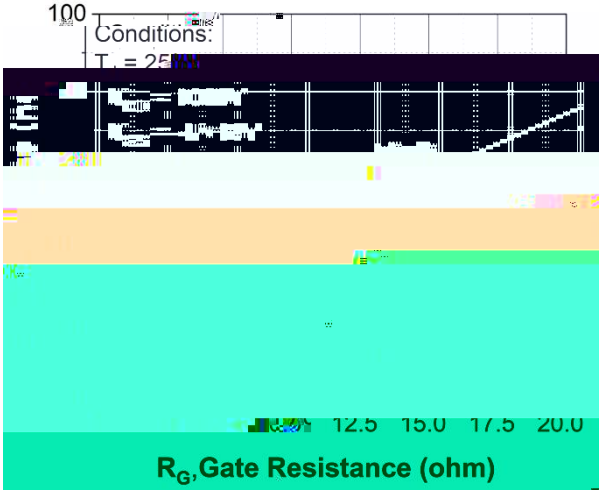

150
120
90
60

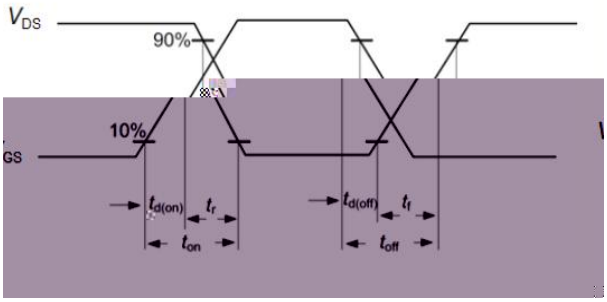

Conditions:

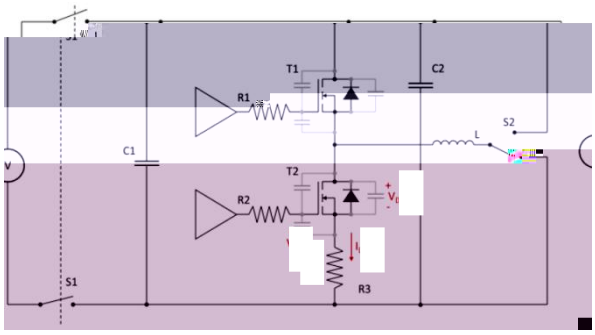

Conditions:
10000

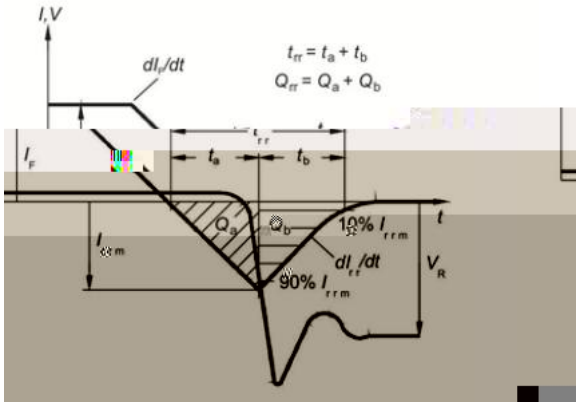

1600
Conditions:
T_J = 25°C


1000
Conditions:


100
Conditions:
12.5
15.0
17.5
20.0
R_G,Gate Resistance (ohm)


V_{DS}
90%
10%
$t_{d(on)}$
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}
I_{rrm}
dI_{rr}/dt
90% I_{rrm}
V_R
t