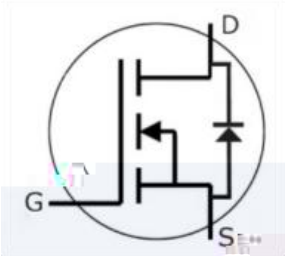
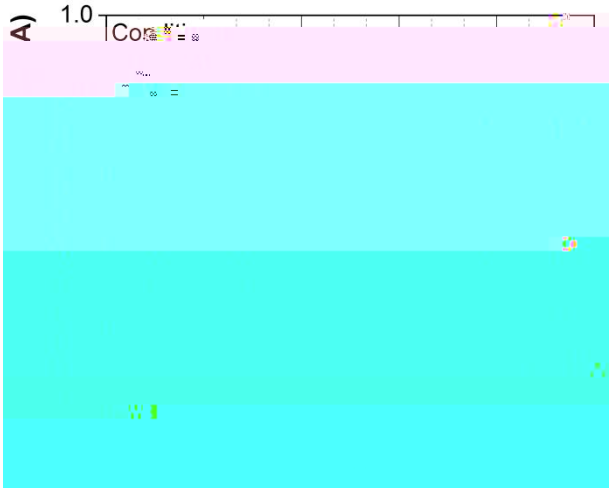
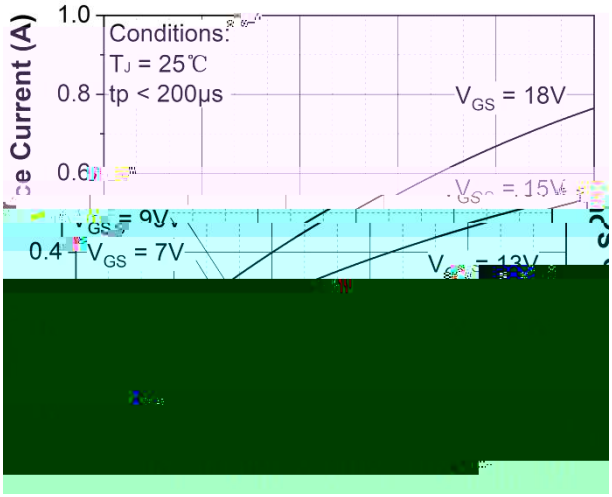
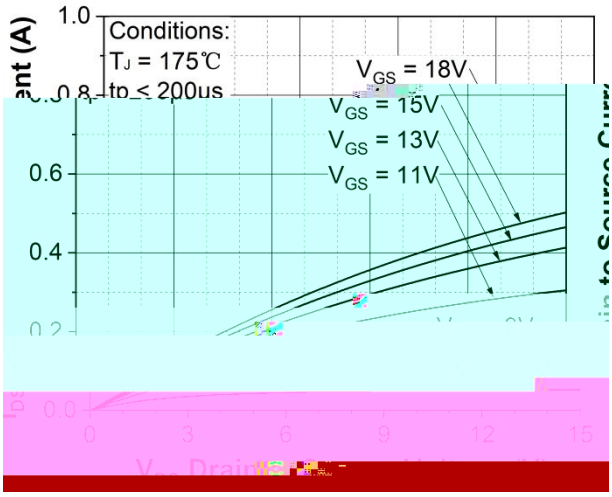

D
G
S

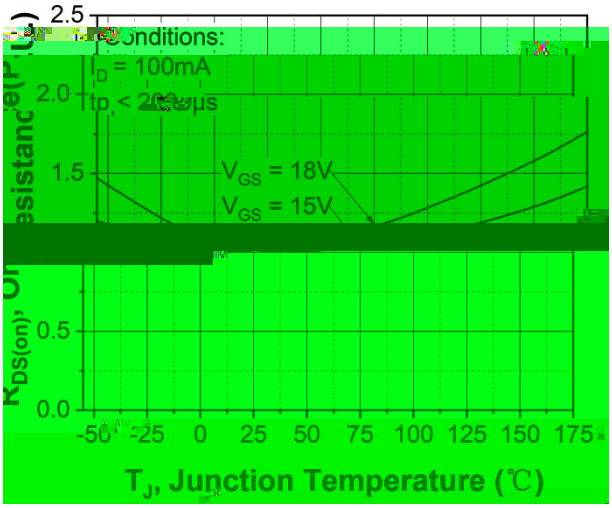
		≤		

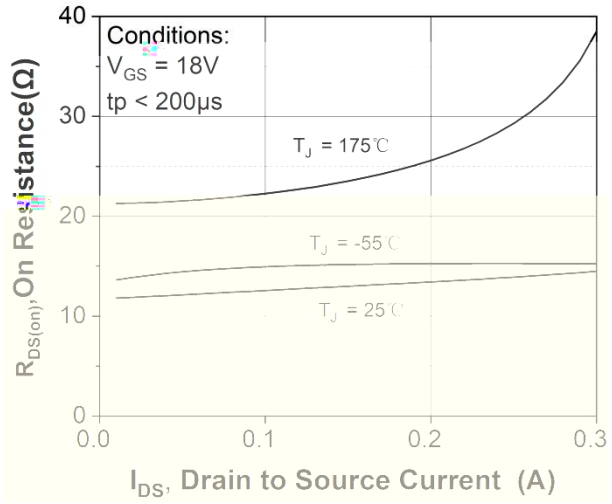
				≤	

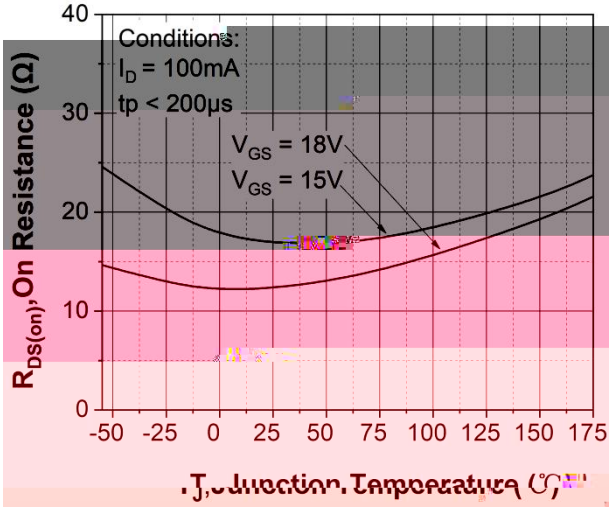


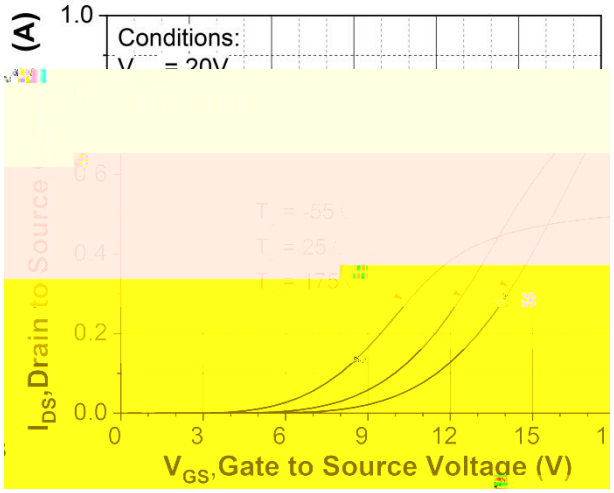

Conditions:
T_J = 25℃
tp < 200μs
V_{GS} = 18V
V_{GS} = 15V
V_{GS} = 9V
V_{GS} = 7V
V_{GS} = 13V
1.0
0.8
0.6
0.4

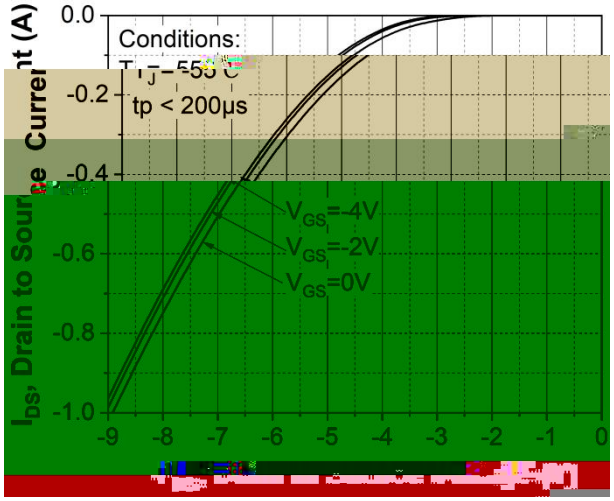

Conditions:
T_J = 175℃
tp < 200μs
V_{GS} = 18V
V_{GS} = 15V
V_{GS} = 13V
V_{GS} = 11V
1.0
0.8
0.6
0.4
0.2
0.0
0
3
6
9
12
15

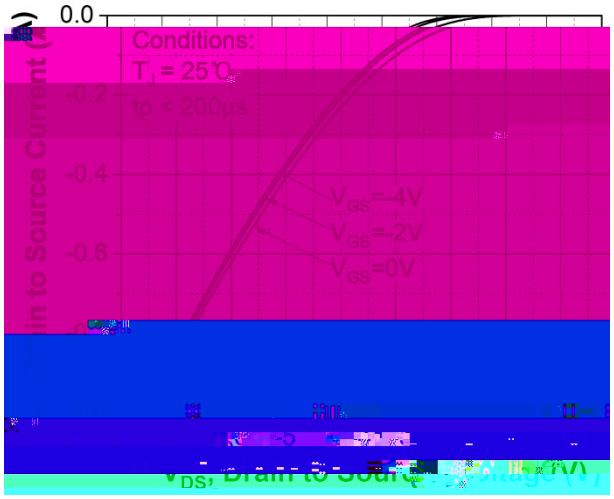

Conditions:
I_D = 100mA
tp < 200μs
V_{GS} = 18V
V_{GS} = 15V
2.5
2.0
1.5
0.5
0.0
-50
-25
0
25
50
75
100
125
150
175
T_J, Junction Temperature (℃)

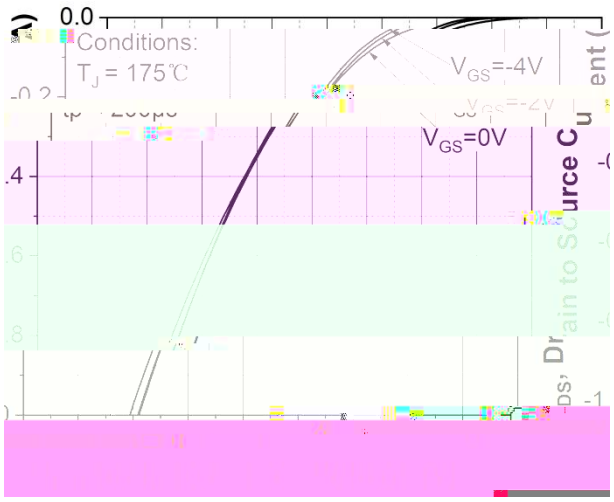

Conditions:
V_{GS} = 18V
tp < 200μs
T_J = 175℃
T_J = -55℃
T_J = 25℃
$R_{DS(on)}$, On Resistance(Ω)
40
30
20
10
0
0.0
0.1
0.2
0.3
I_{DS}, Drain to Source Current (A)

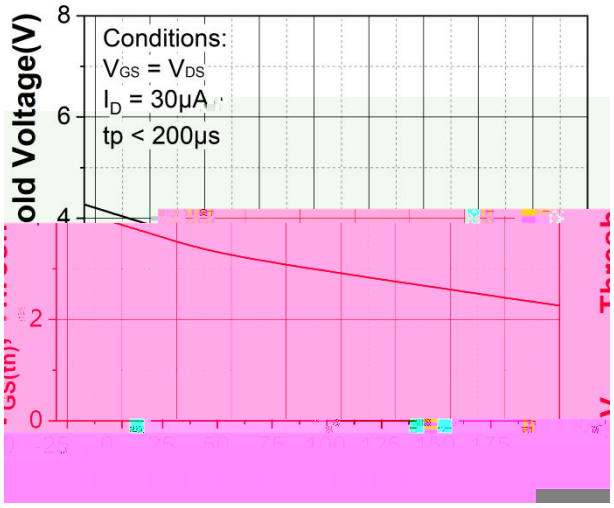

Conditions:
I_D = 100mA
tp < 200μs
V_{GS} = 18V
V_{GS} = 15V
$R_{DS(on)}$, On Resistance (Ω)
40
30
20
10
0
-50
-25
0
25
50
75
100
125
150
175

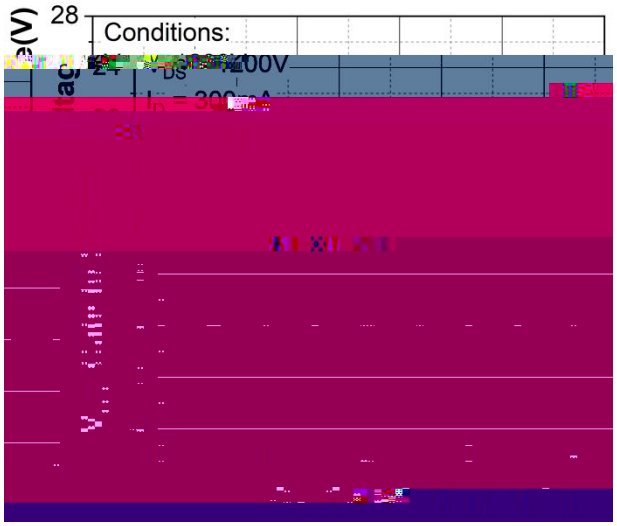

Conditions:
I_{DS},Drain to Source
V_{GS},Gate to Source Voltage (V)

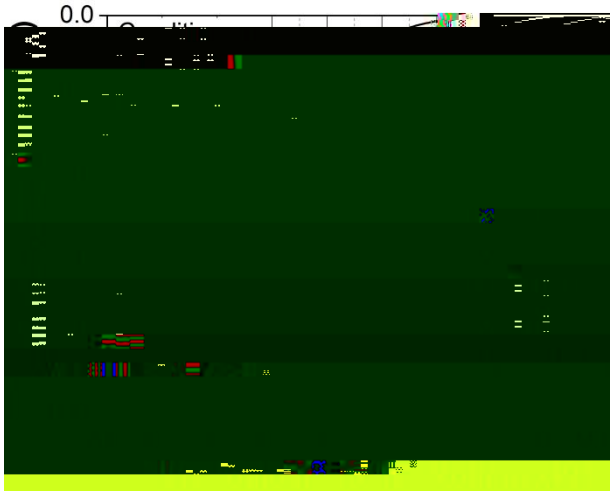

Conditions:
tp < 200μs
V_{GS}=-4V
V_{GS}=-2V
V_{GS}=0V
I_{DS}, Drain to Source Current (A)

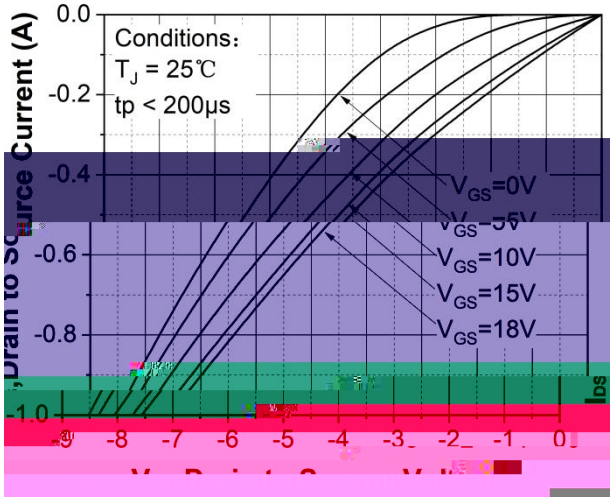

Conditions:
T_J = 25℃
tp < 200μs
V_{GS}=-4V
V_{GS}=-2V
V_{GS}=0V

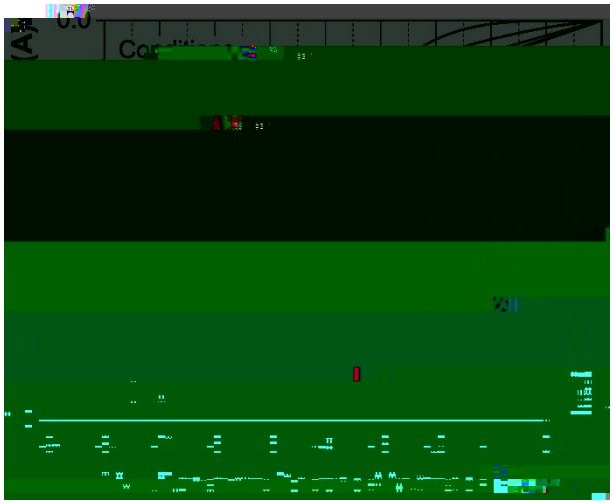

Conditions:
T_J = 175℃
V_{GS}=-4V
V_{GS}=0V

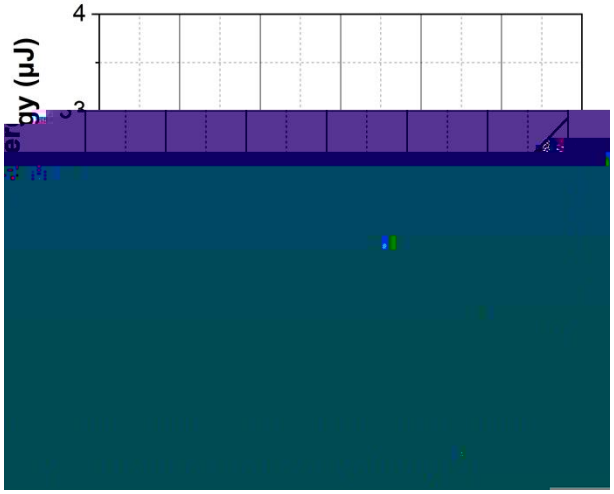

Conditions:
V_{GS} = V_{DS}
I_D = 30μA
tp < 200μs

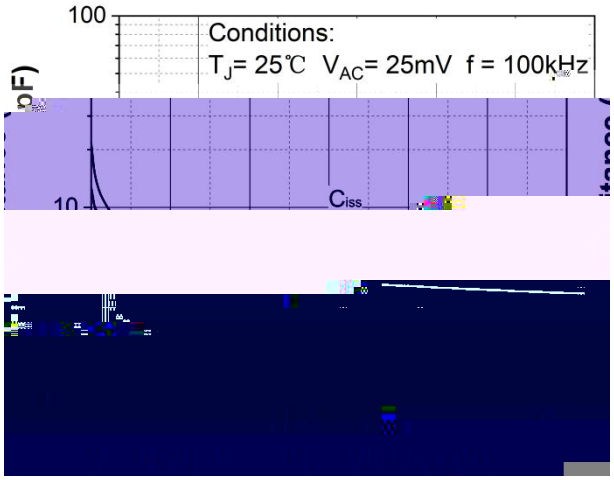

Conditions:

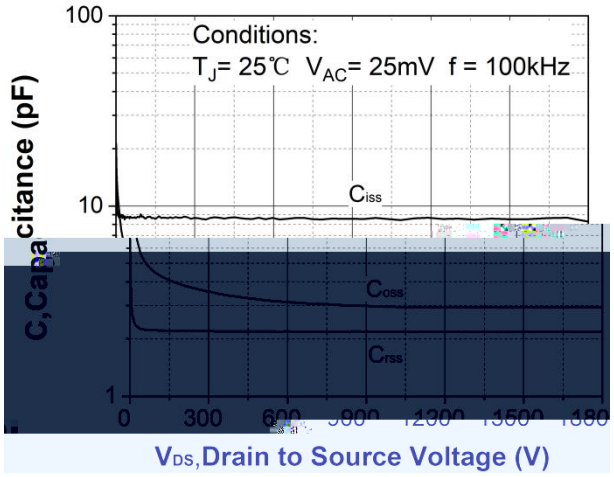


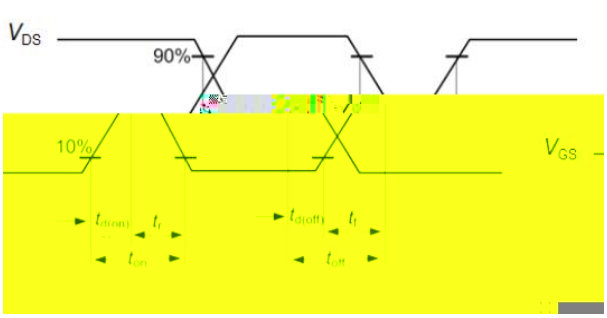

Conditions:
T_J = 25℃
tp < 200μs
V_{GS}=0V
V_{GS}=5V
V_{GS}=10V
V_{GS}=15V
V_{GS}=18V
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-8
-7
-6
-5
-4
-3
-2
-1
0

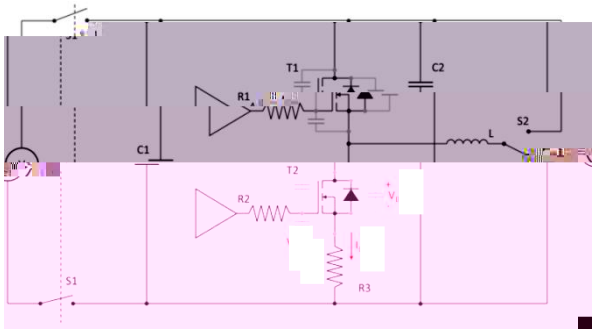


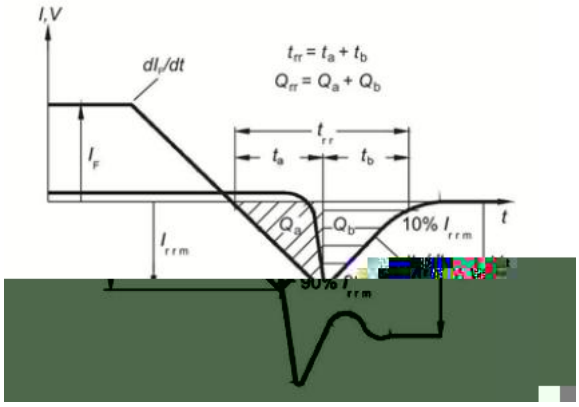

4


Conditions:
T_J= 25℃ V_{AC}= 25mV f = 100kHz
100
10
C_{iss}


Conditions:
T_J= 25℃ V_{AC}= 25mV f = 100kHz
100
10
1
C_{iss}
C_{oss}
C_{rss}
0
300
600
C,Capacitance (pF)
V_{DS},Drain to Source Voltage (V)


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
S1
R3


I,V
dI_F/dt
$t_{rr} = t_a + t_b$
$Q_{rr} = Q_a + Q_b$
t_{rr}
t_a
t_b
I_F
Q_a
Q_b
10% I_{rrm}
t
I_{rrm}
90% I_{rrm}