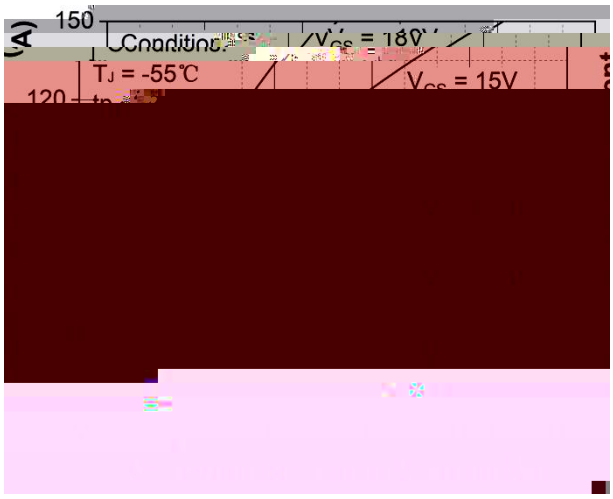
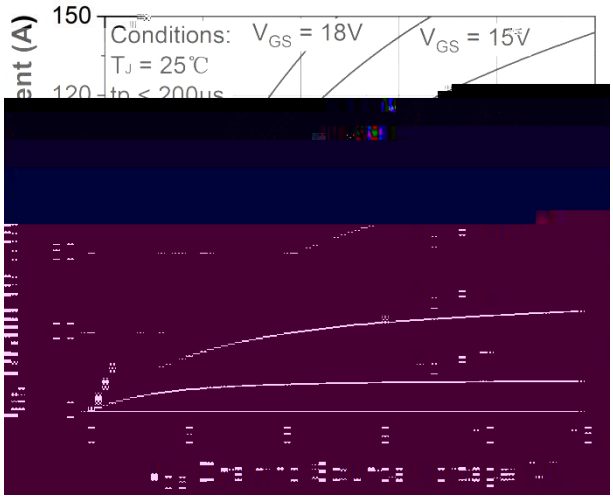
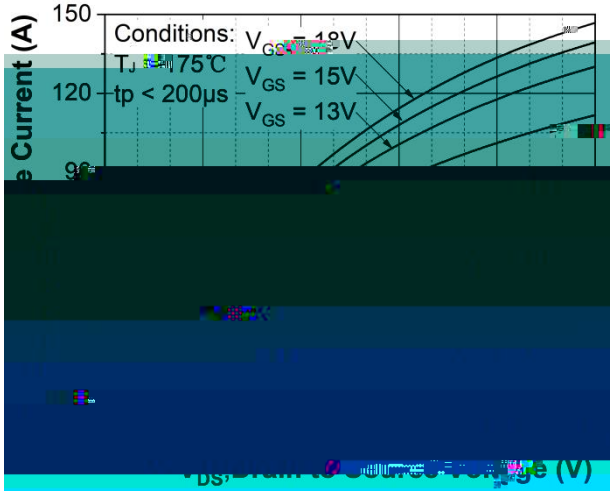
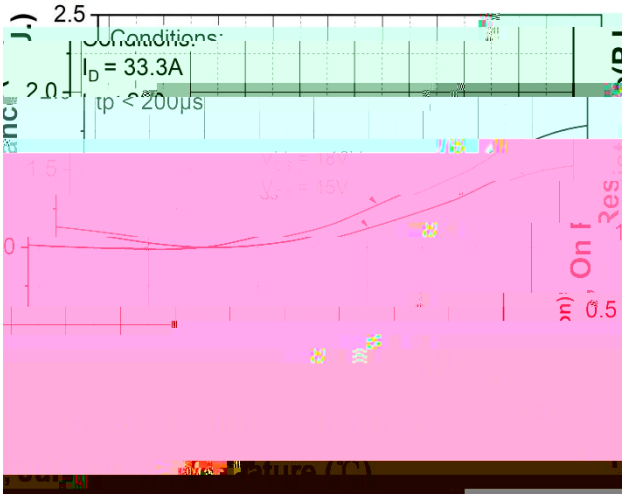
SICHAIN

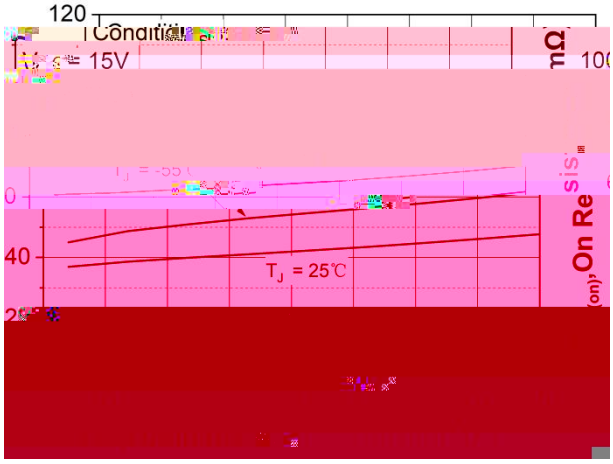


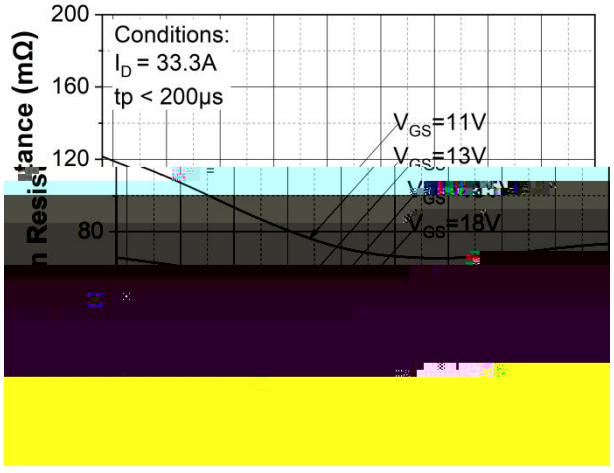

150
Conditions:
TJ = -55℃
VGS = 15V

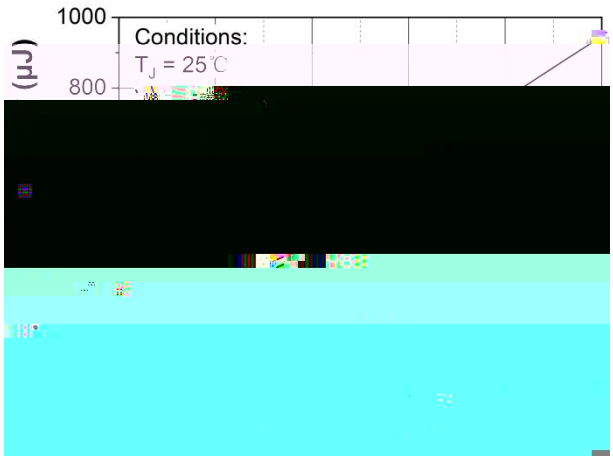

150
Conditions:
TJ = 25℃
VGS = 18V
VGS = 15V

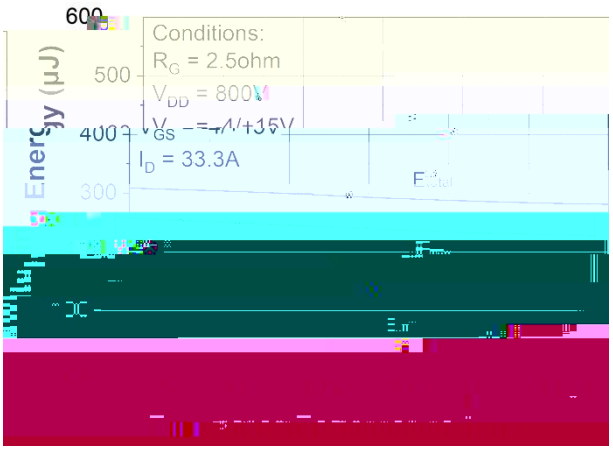

150
Conditions:
TJ = 175℃
tp < 200μs
VGS = 18V
VGS = 15V
VGS = 13V
120
Current (A)

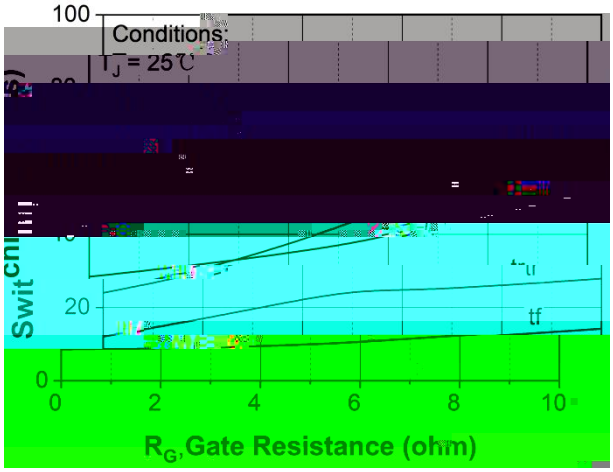

2.5
ID = 33.3A
tp < 200μs
2.0
1.5
0.5

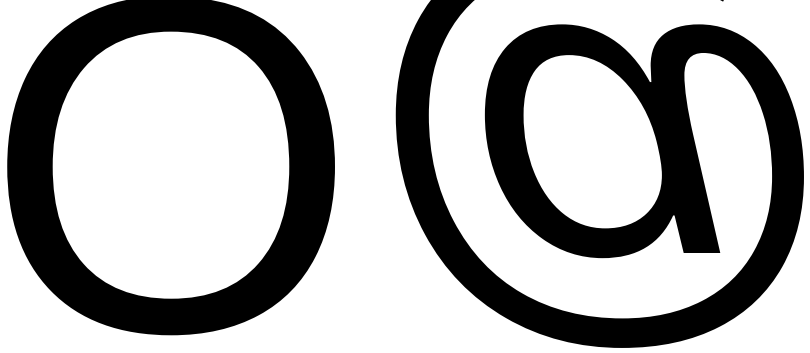

120
15V
TJ = 25℃
40

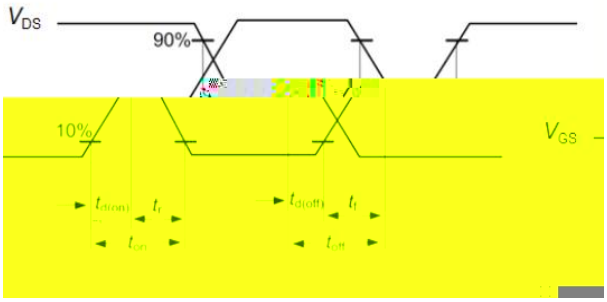

200
Conditions:
ID = 33.3A
tp < 200μs
160
120
80
VGS=11V
VGS=13V
VGS=18V

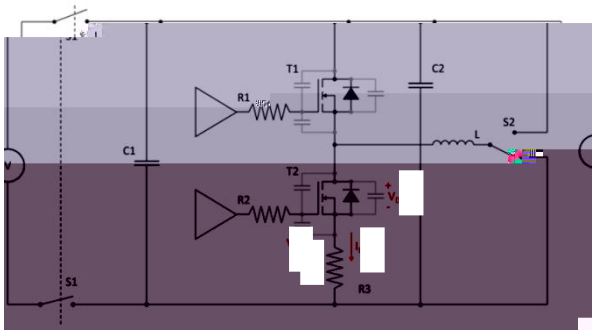

1000
800
(μJ)
Conditions:
T_J = 25℃

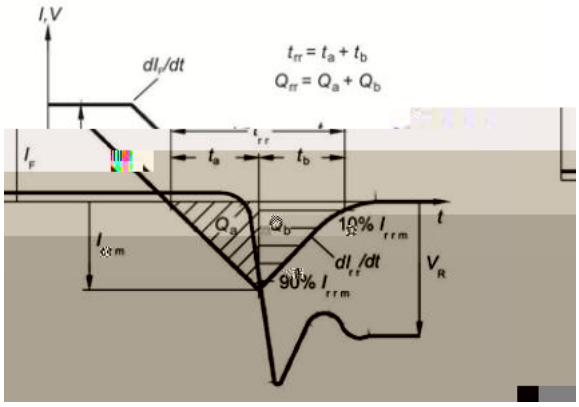

600
500
400
300
Conditions:
R_G = 2.5ohm
V_DD = 800V
I_D = 33.3A


100
Conditions:
T_J = 25℃
20
0
0
2
4
6
8
10
tf
R_G,Gate Resistance (ohm)




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}
I_{rrm}
dI_{rr}/dt
90% I_{rrm}
V_R
t

		——	——
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