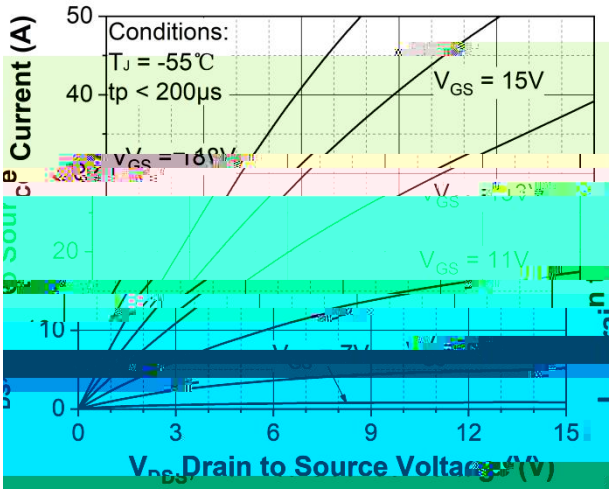
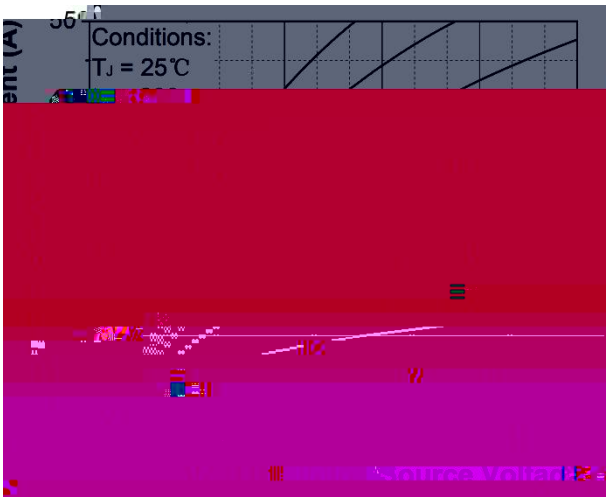
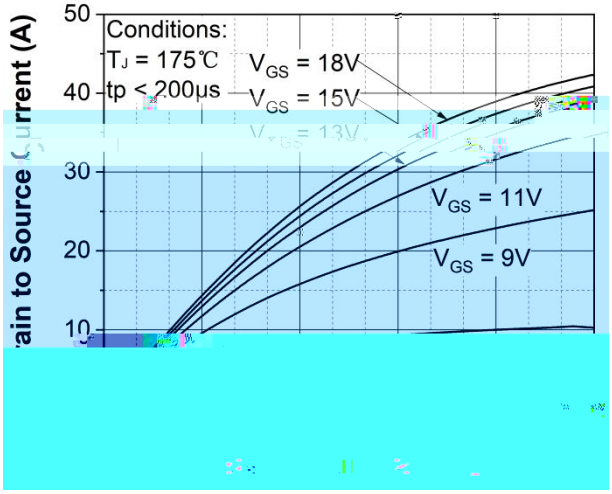
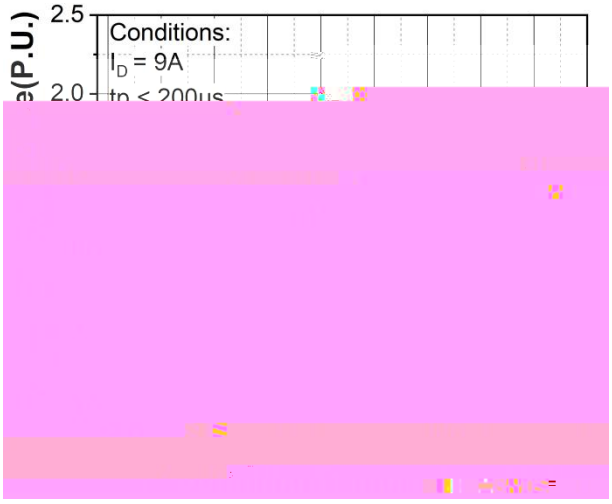
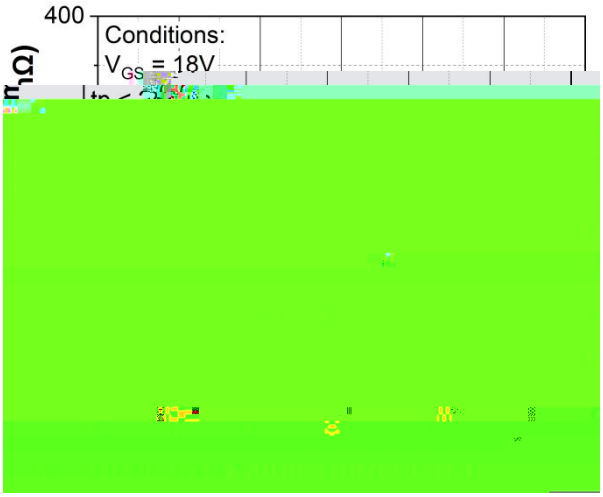
				≤	

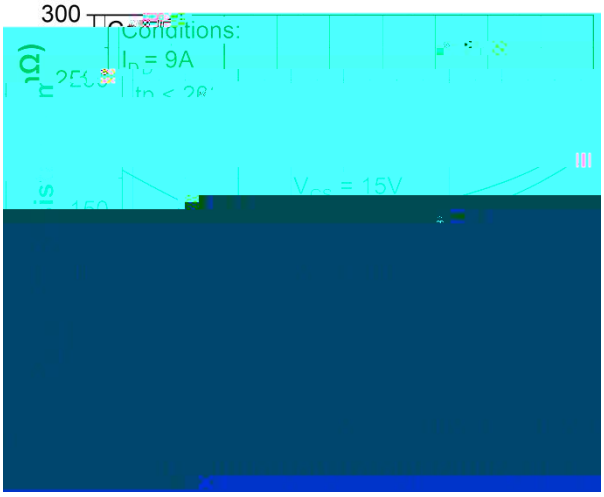

Conditions:
TJ = -55℃
tp < 200μs
VGS = 15V
VGS = 11V
50
40
20
10
0
0
3
6
9
12
15
Current (A)
Drain to Source Voltage (V)

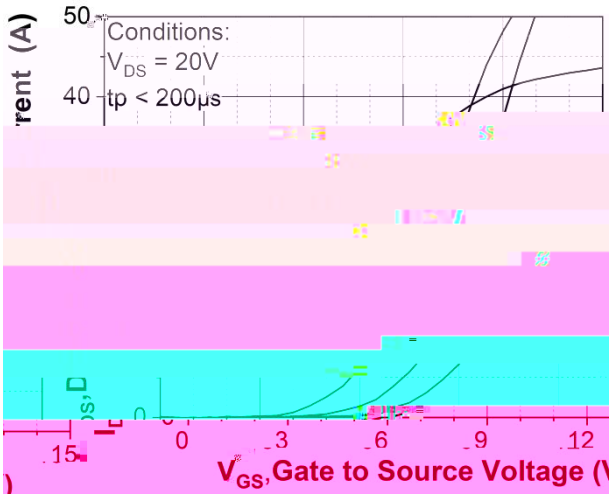

Conditions:
TJ = 25℃

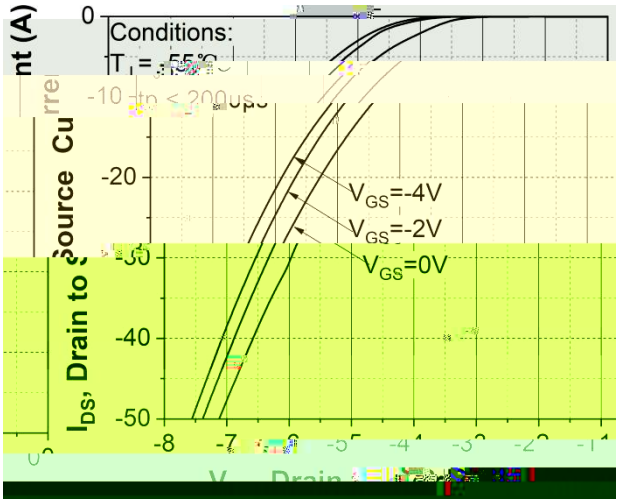

Conditions:
TJ = 175℃
tp < 200μs
VGS = 18V
VGS = 15V
VGS = 11V
VGS = 9V
50
40
30
20
10

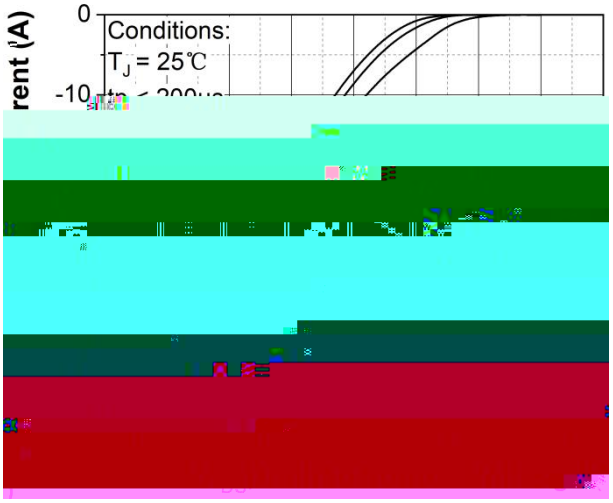

Conditions:
ID = 9A
2.5
2.0

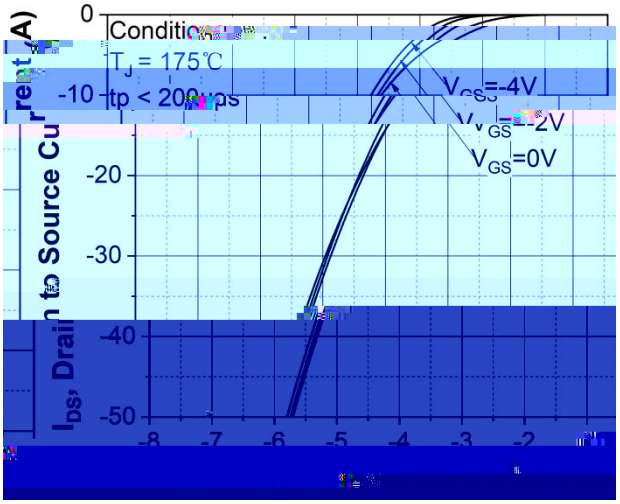

Conditions:
VGS = 18V
400

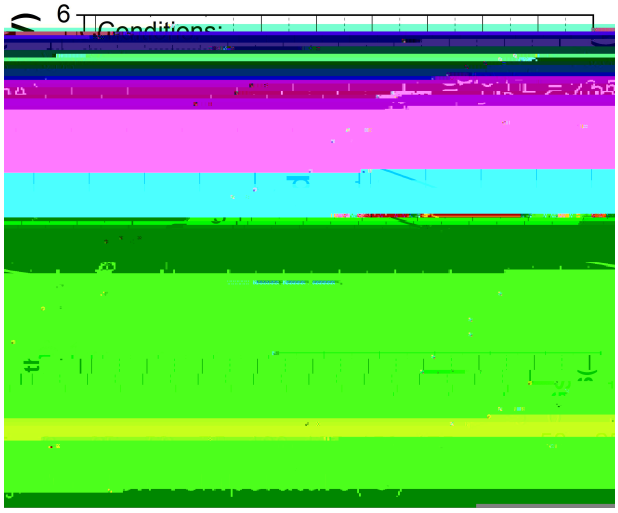

Conditions:
ID = 9A
300
VGS = 15V

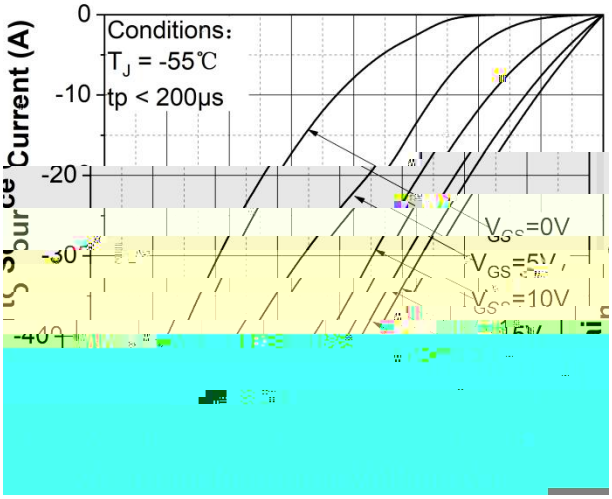

Conditions:
V_{DS} = 20V
tp < 200µs
V_{GS}, Gate to Source Voltage

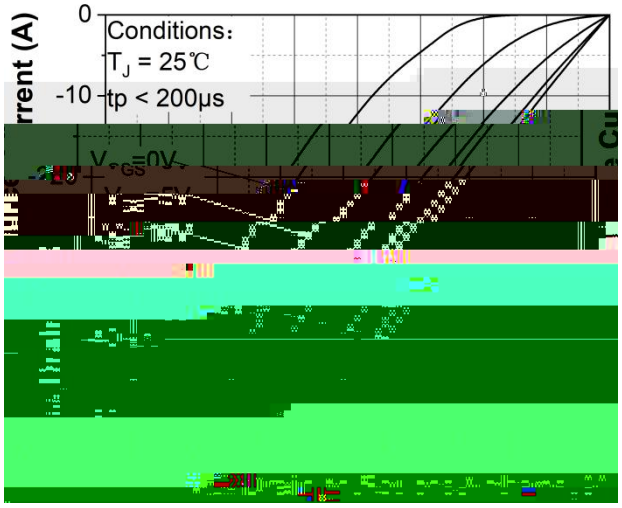

Conditions:
V_{GS}=-4V
V_{GS}=-2V
V_{GS}=0V
I_{DS}, Drain to Source Current

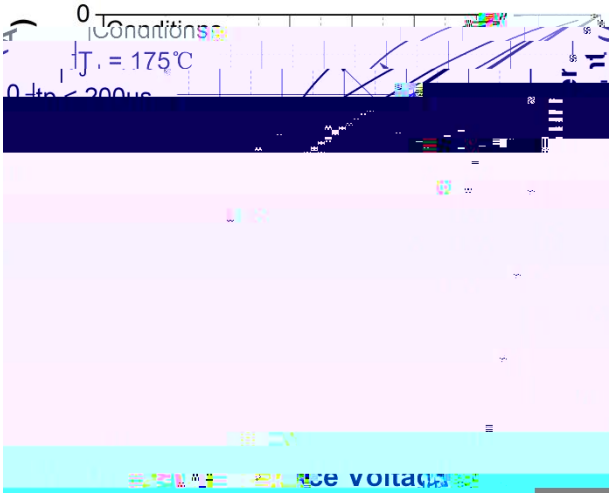

Conditions:
T_J = 25℃

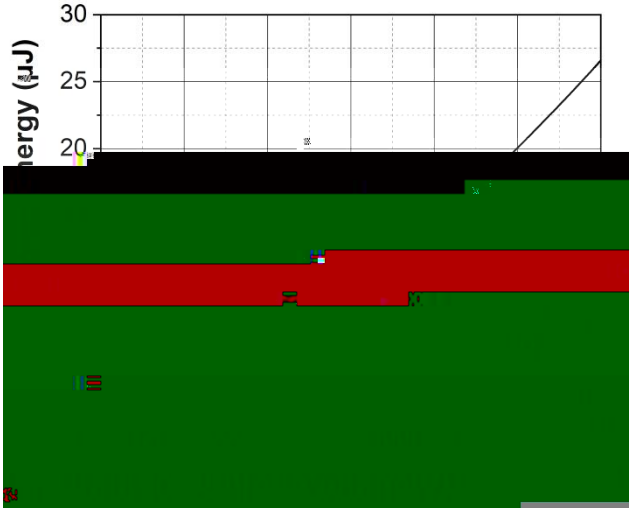

Conditions:
T_J = 175℃
tp < 200µs
V_{GS}=-4V
V_{GS}=-2V
V_{GS}=0V
I_{DS}, Drain to Source Current

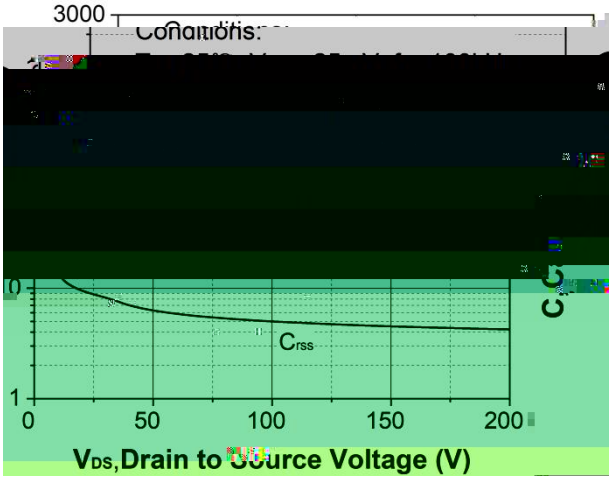


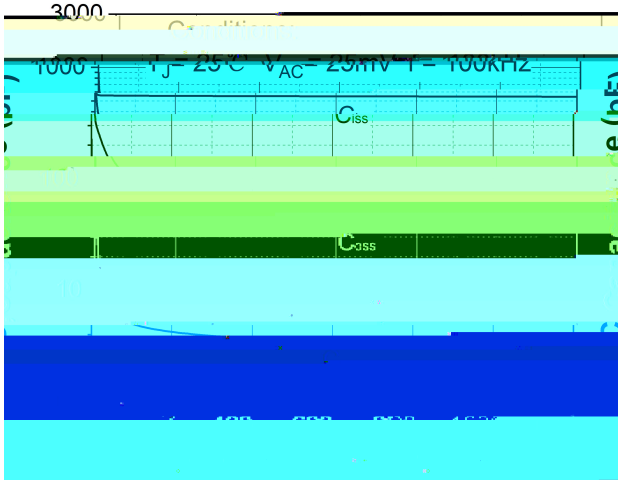

Conditions:
T_J = -55℃
tp < 200μs
V_{GS}=0V
V_{GS}=5V
V_{GS}=10V
0
-10
-20
-30
-40

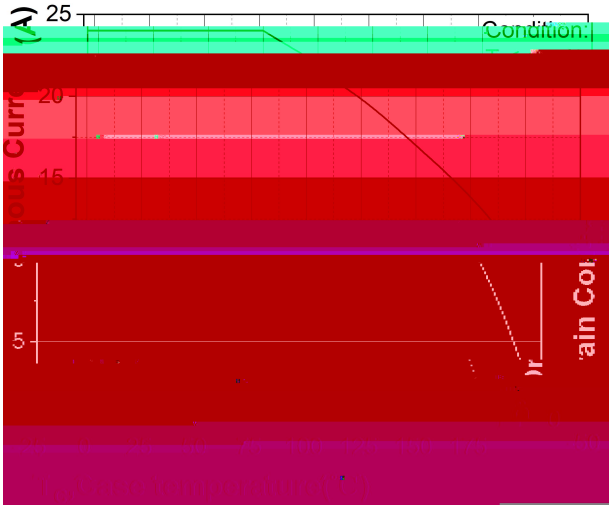

Conditions:
T_J = 25℃
tp < 200μs
V_{GS}=0V
0
-10

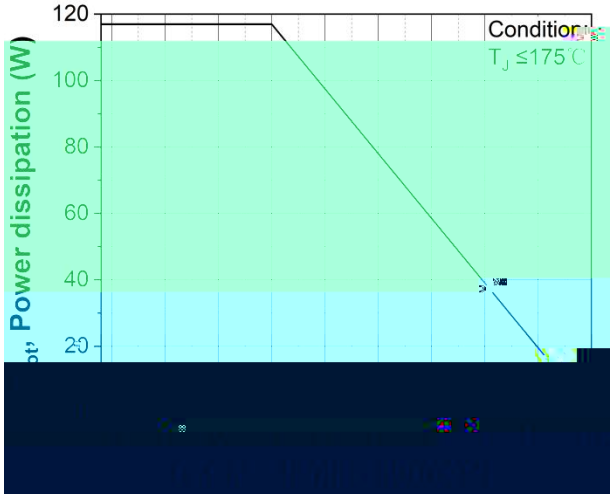

0

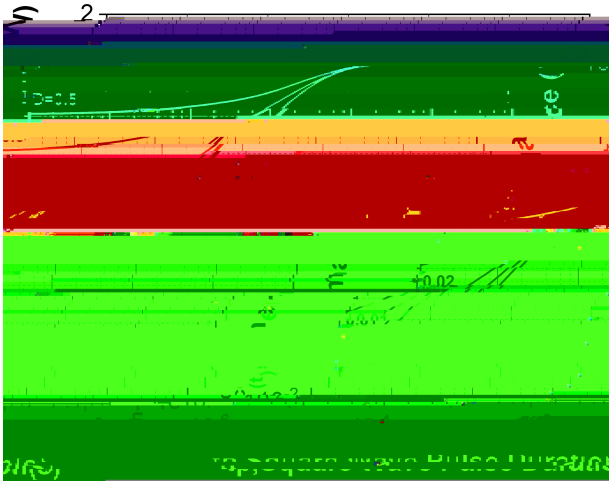

30
25
20

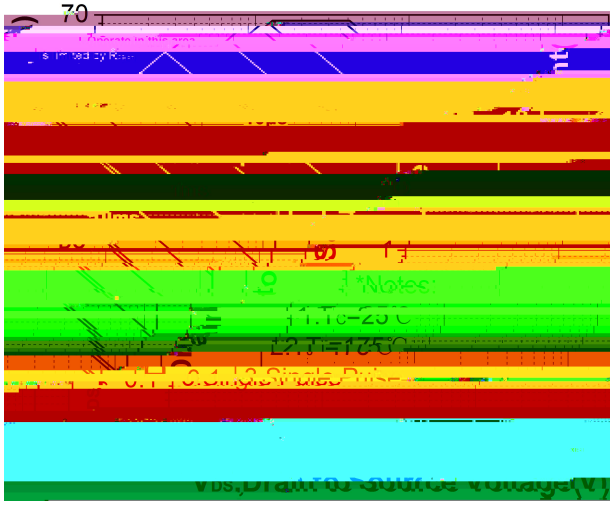

3000
C_{rss}
1
0
50
100
150
200
V_{DS},Drain to Source Voltage (V)

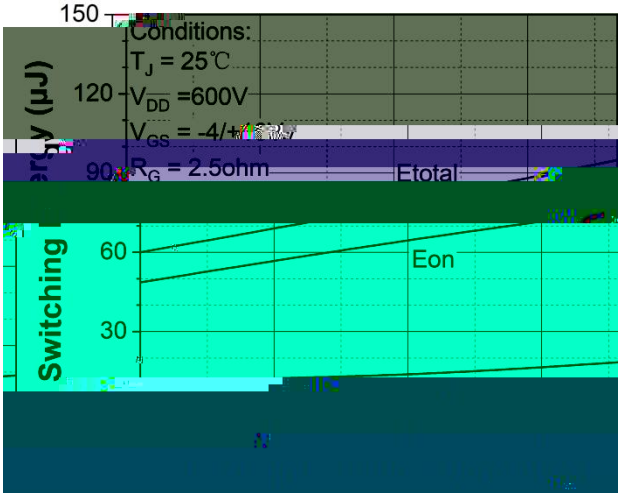

3000
C_{iss}
C_{oss}

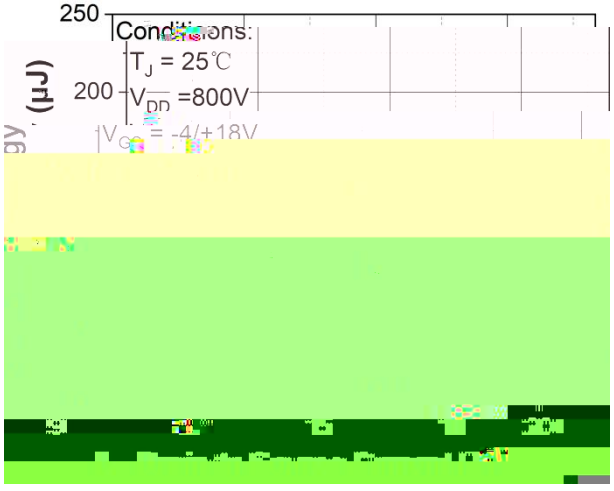

25
20
15
5
Condition:

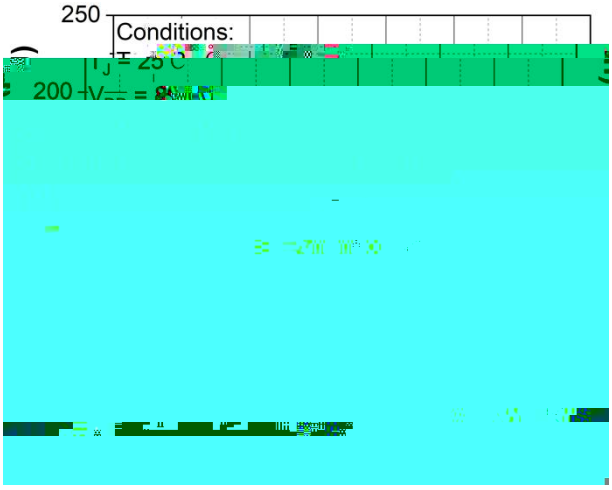

120
100
80
60
40
20
Power dissipation (W)
Condition:
T_J ≤175℃

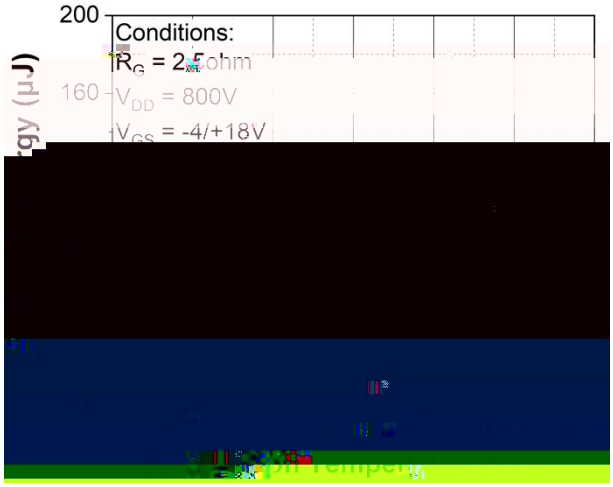

2

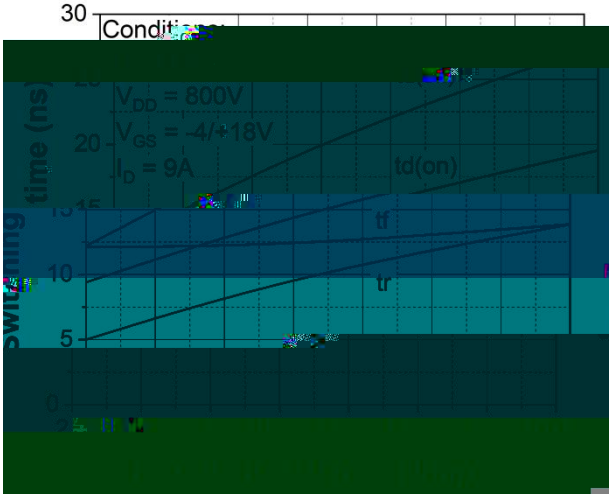

70
*Notes:

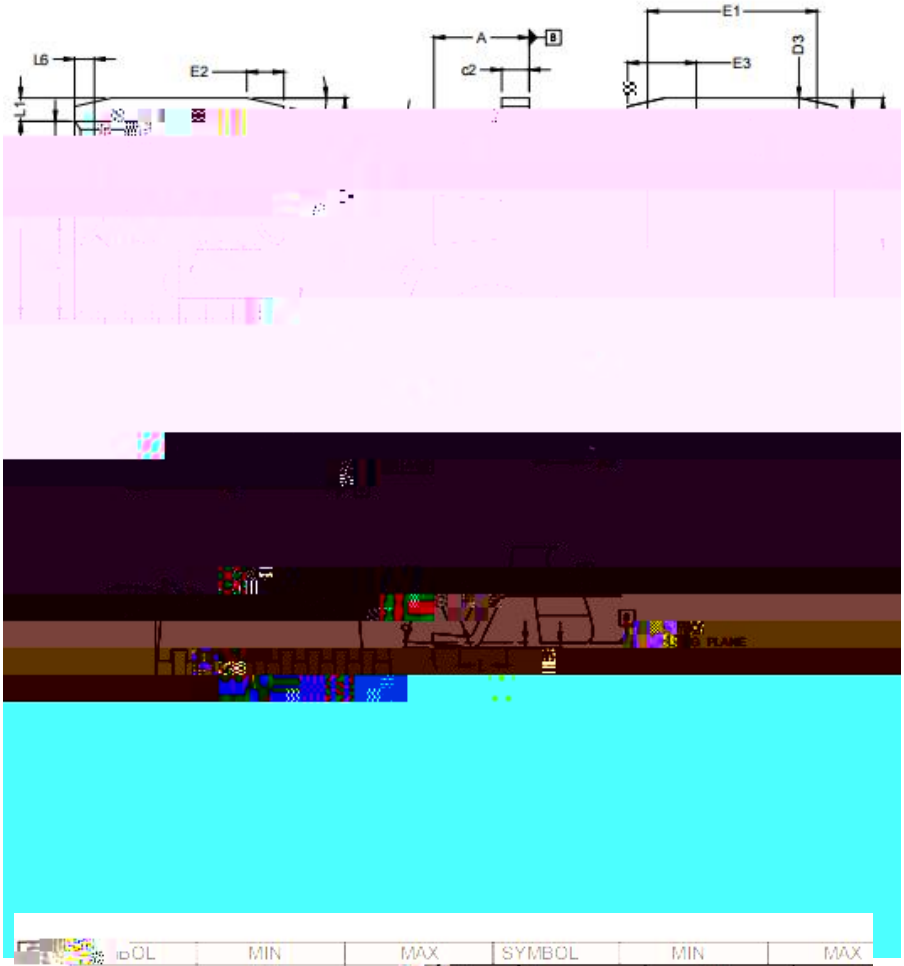

150
120
90
60
30
Switching
Conditions:
T_J = 25℃
V_{DD} =600V
V_{GS} = -4/+18V
R_G = 2.5ohm
Etotal
Eon


250
200
Conditions:
T_J = 25℃
V_{DD} =800V
V_{GS} = -4/+18V

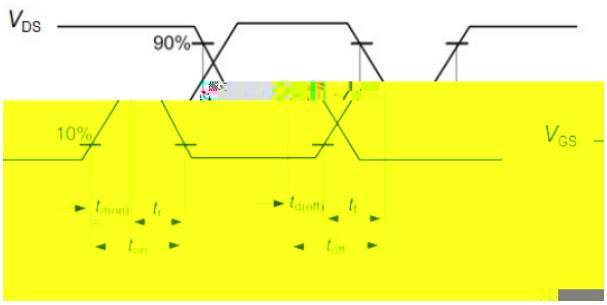

250
Conditions:
200

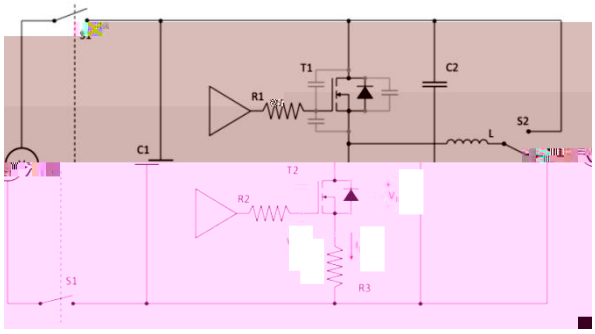

200
Conditions:
R_G = 2.5ohm
160
V_{DD} = 800V
V_{GS} = -4/+18V

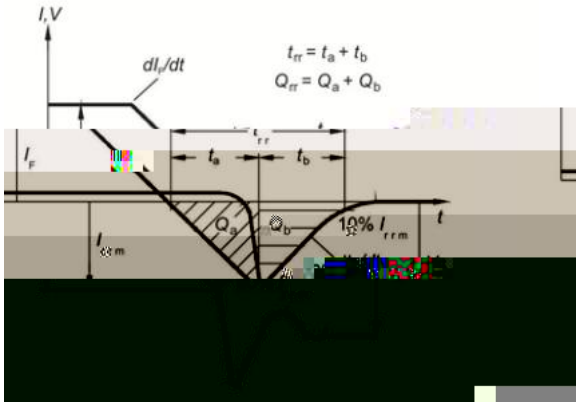

30
V_{DD} = 800V
V_{GS} = -4/+18V
20
I_D = 9A
td(on)
tf
10
tr
5



SYMBOL	MIN	MAX	SYMBOL	MIN	MAX
A	4.30		L	1.78	2.
A1					


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

			——