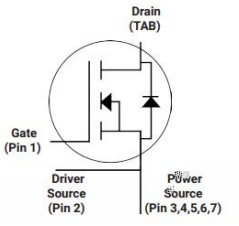
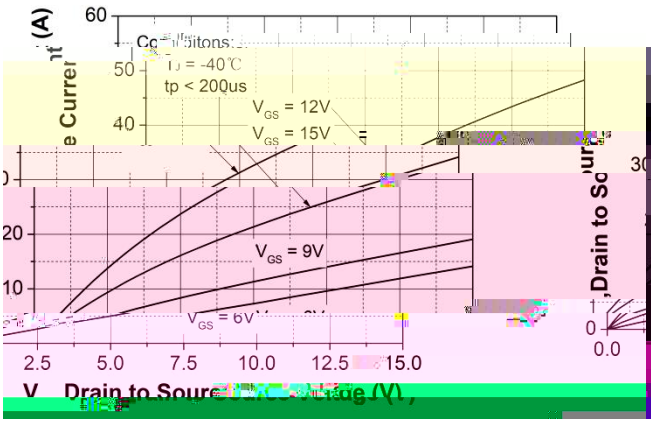
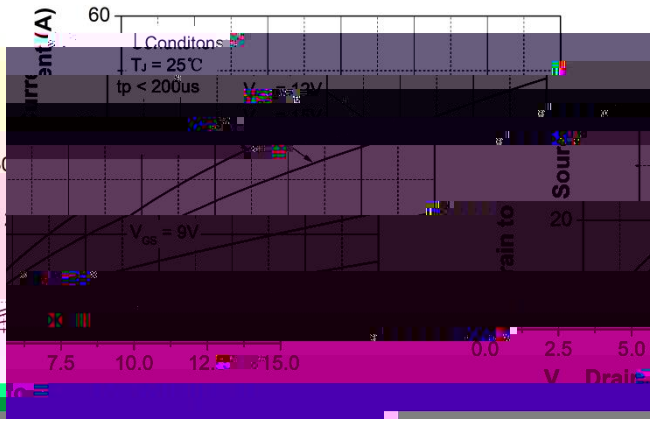

1 2 3 4 5 6 7

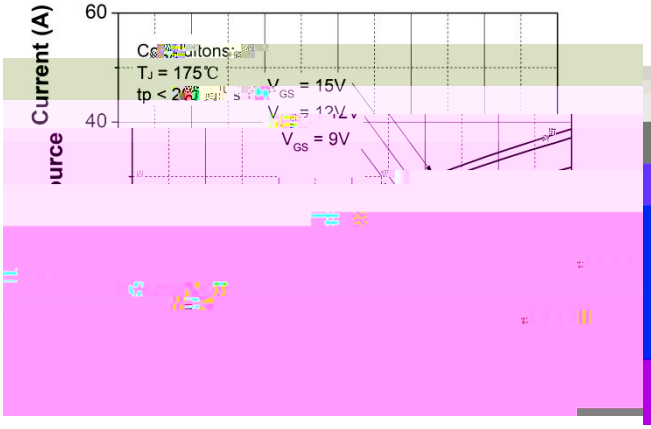

Drain
(TAB)
Gate
(Pin 1)
Driver
Source
(Pin 2)
Power
Source
(Pin 3,4,5,6,7)

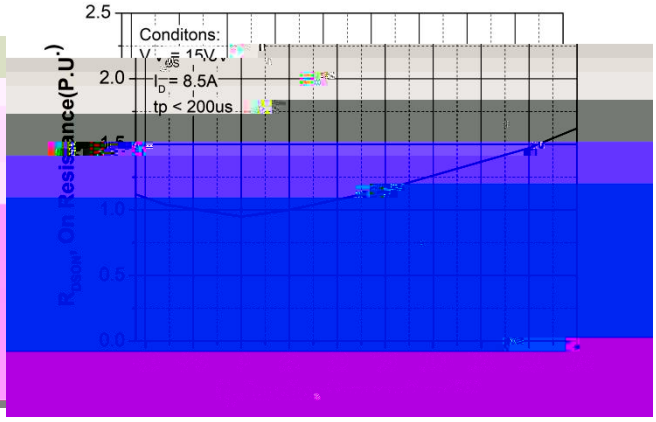
						$	

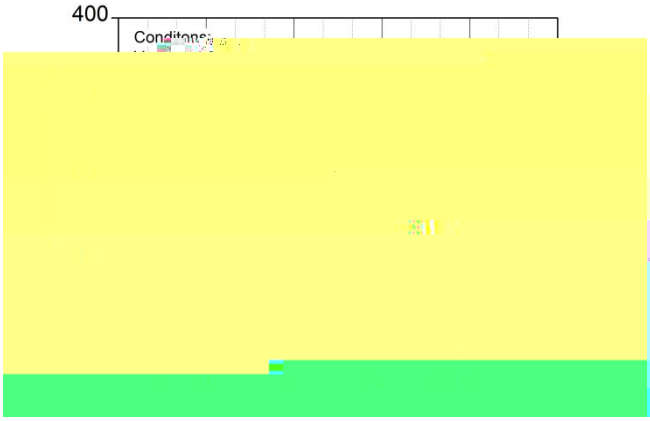
J\

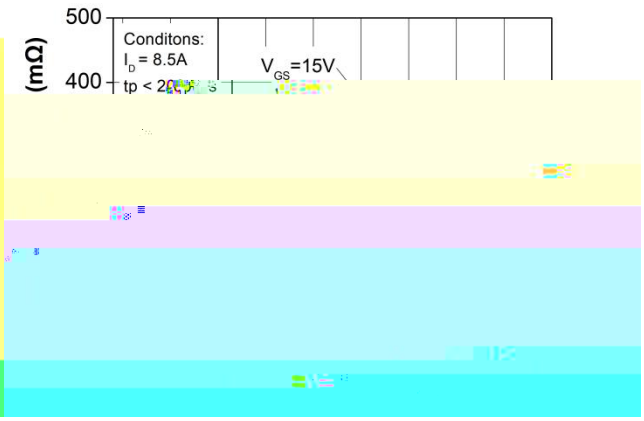

60
50
40
20
10
0
2.5
5.0
7.5
10.0
12.5
15.0
tp < 200us
V_{GS} = 12V
V_{GS} = 15V
V_{GS} = 9V
V_{GS} = 6V

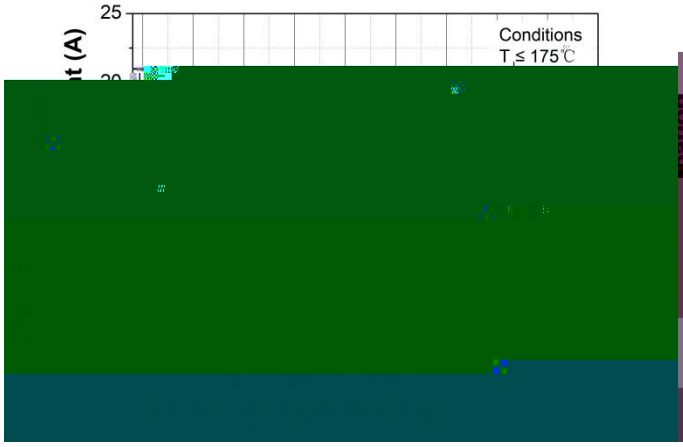

60
30
20
0
0.0
2.5
5.0
7.5
10.0
15.0
Conditons:
T_J = 25℃
tp < 200us
V_{GS} = 9V

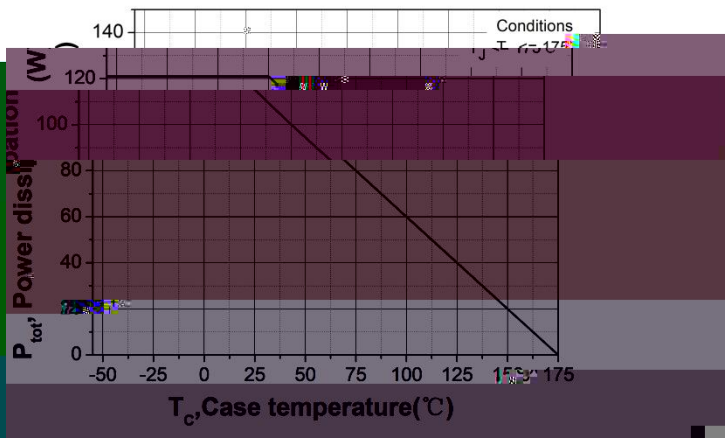

60
40
Current (A)
Conditons:
T_J = 175℃
V_{GS} = 15V
V_{GS} = 9V

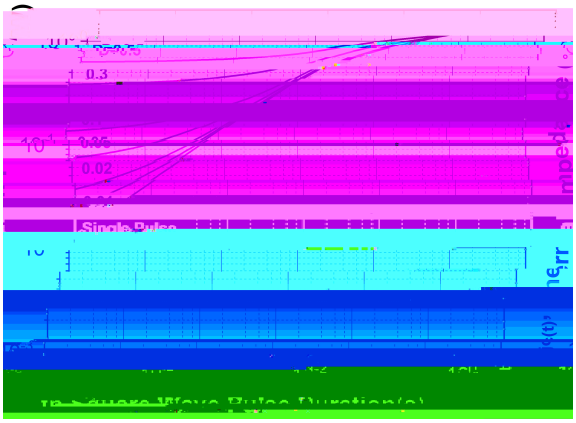

2.5
2.0
1.5
1.0
0.5
0.0
Conditons:
I_D = 8.5A
tp < 200us

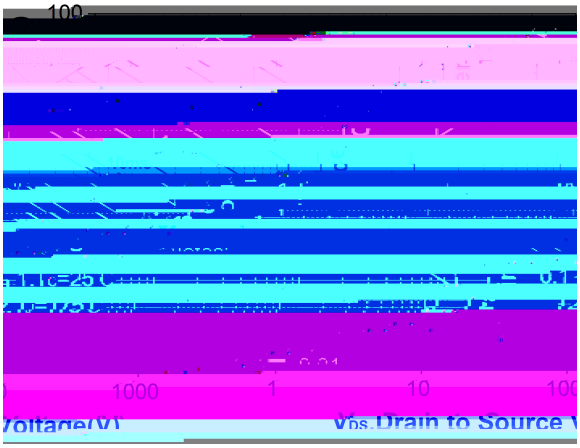

400
Conditons:

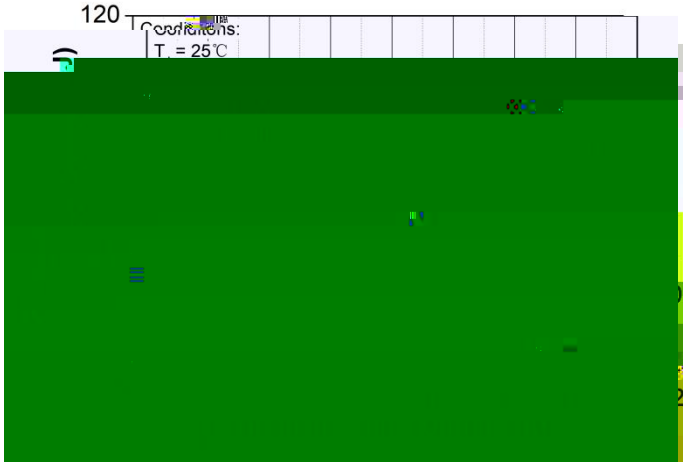

500
400
(mΩ)
Conditons:
I_D = 8.5A
V_{GS}=15V

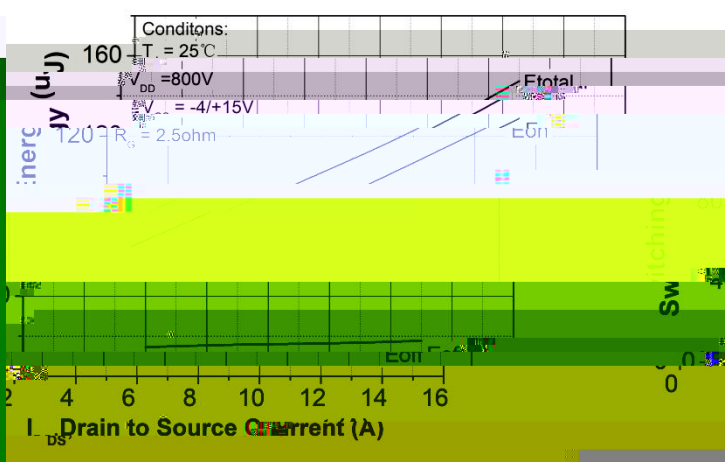

25
Conditions
T ≤ 175℃

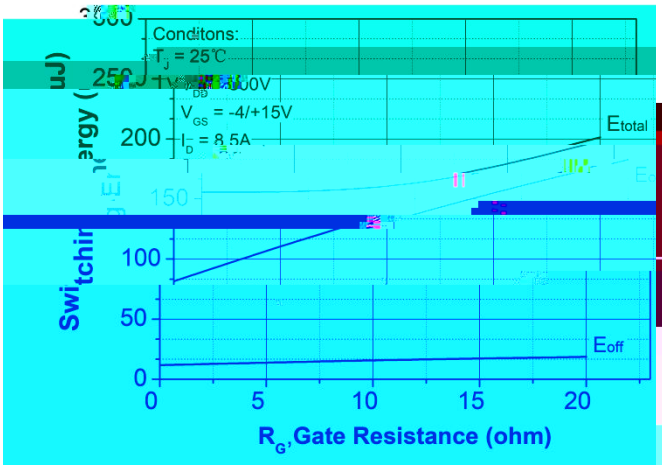

140
120
100
80
60
40
0
-50
-25
0
25
50
75
100
125
175
Conditions
Power dissipation
P_tot, Power dissipation (W)
T_c,Case temperature(℃)

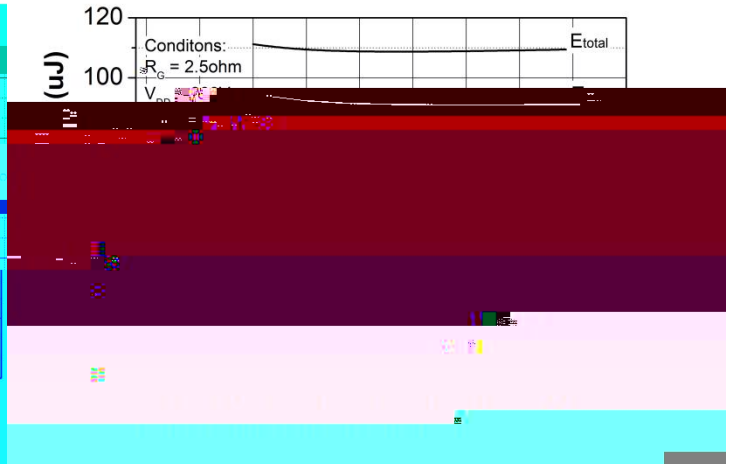

0.3
0.05
0.02
Single Pulse

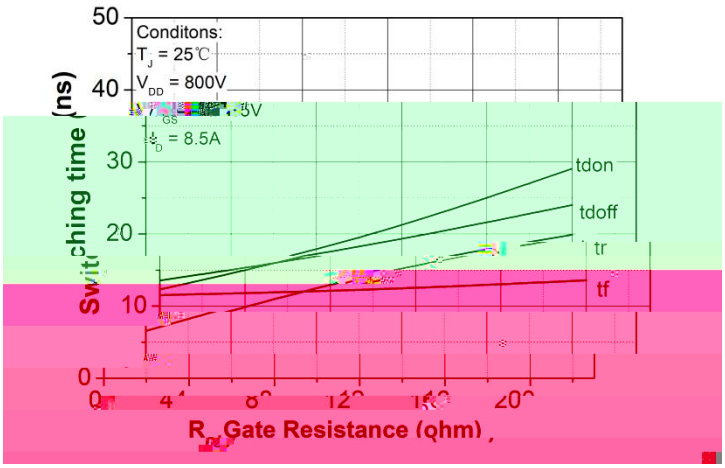

100
1000
1
10
Drain to Source

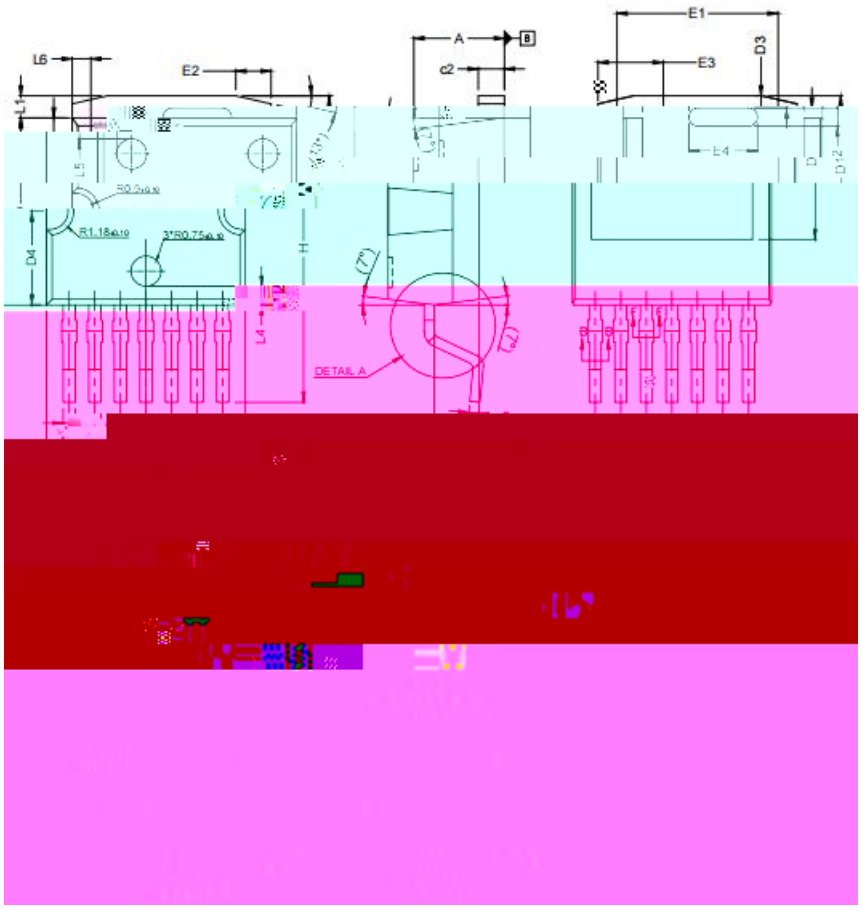

120
Conditions:
T_J = 25℃


Conditions:
T_J = 25℃
V_DD =800V
V_GS = -4/+15V
R_G = 2.5ohm
Etotal
Eon
Eoff
160
120
80
40
0
2
4
6
8
10
12
14
16
I_DS, Drain to Source Current (A)

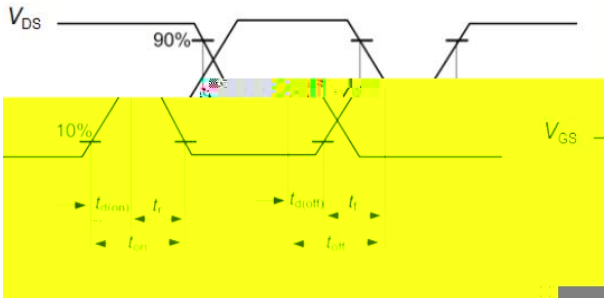

Conditons:
T_J = 25℃
V_{DD} = 800V
V_{GS} = -4/+15V
I_D = 8.5A
Etotal
Eoff
Switching Energy (uJ)
R_G,Gate Resistance (ohm)

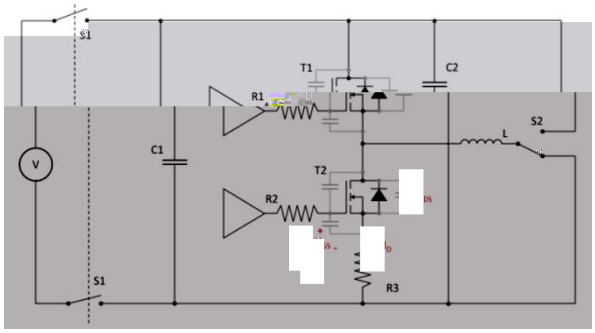

Conditons:
R_G = 2.5ohm
Etotal
(uJ)

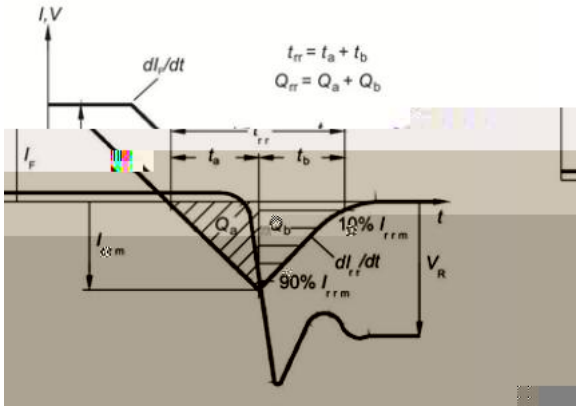

Conditons:
T_J = 25℃
V_{DD} = 800V
I_D = 8.5A
tdon
tdoff
tr
tf
Switching time (ns)
R_G,Gate Resistance (ohm)



SYMBOL	MIN	MAX	SYMBOL	MIN	MAX
A	4.30		L	1.78	2.79
A1		0.25	L1		1.60
A2	2.02	2.42	L3	0.25BSC	
b	0.50	0.70	L4		
b1	0.50	0.65	L5		
D	9.70	9.90			
D1	6.65	7.42			
D2	0.72	1.12			
D3	0.40	0.60			
D4	4.45	4.65			
E	9.55	10.05			
E1	7.70	8.30			
E2	1.85	1.95			
E3	5.04	5.44			
E4	5.21	5.61			
e	1.27 BSC				
e1	7.62 BSC				


V_{DS}
90%
10%
V_{GS}
$t_{d(on)}$
t_r
t_{on}
$t_{d(off)}$
t_f
t_{off}


S1
T1
C2
R1
S2
L
C1
V
T2
R2
R3
S1


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

		——	——
		——	——
		——	——
		——	——
		——	——
			——