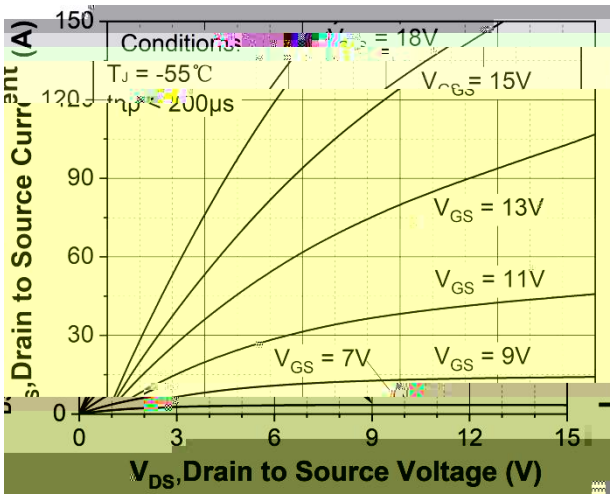
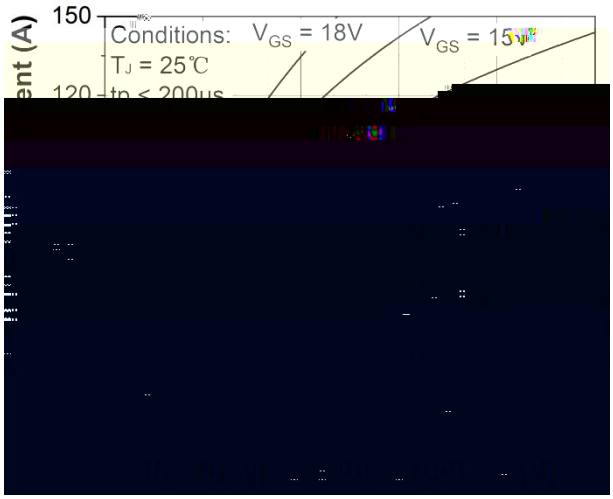
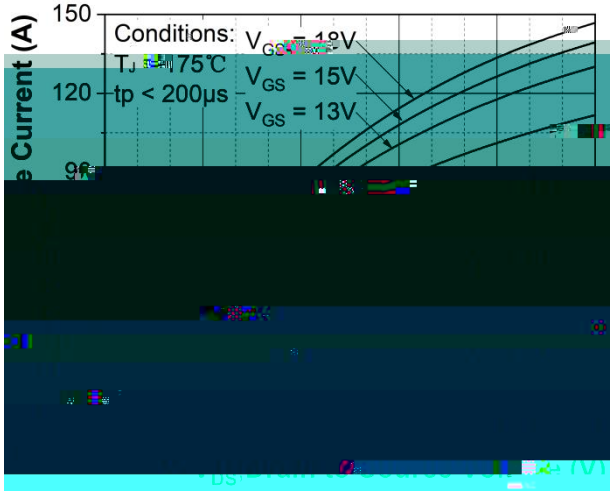
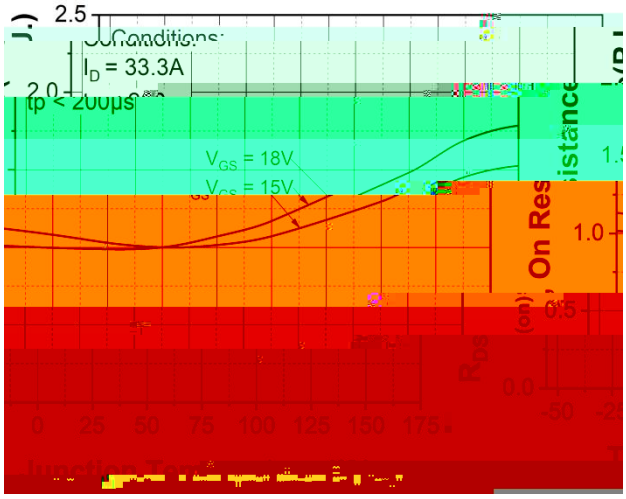
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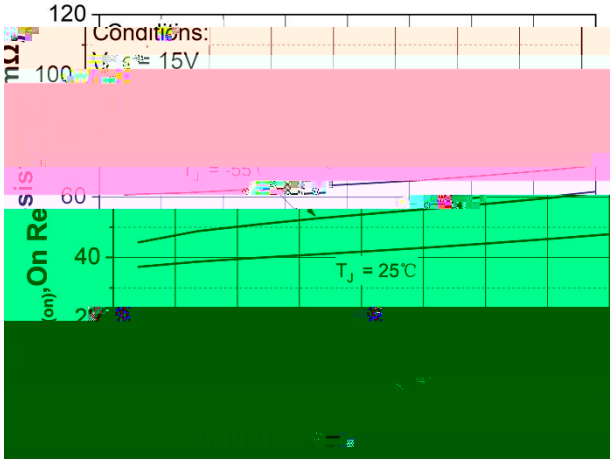

F
Cl
Halogen-Free
Br
I

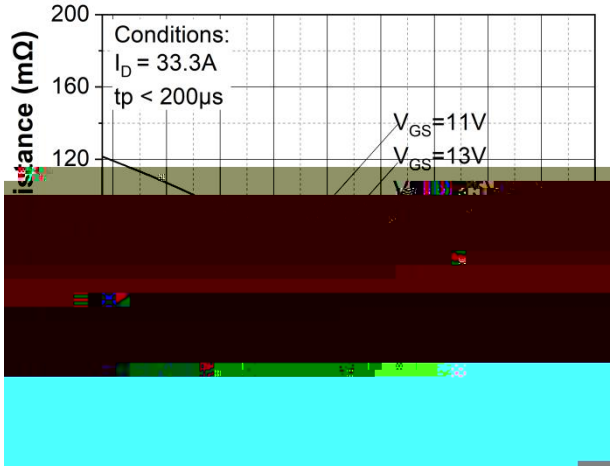

Conditions:
TJ = -55℃
tp < 200μs
VGS = 15V
VGS = 13V
VGS = 11V
VGS = 7V
VGS = 9V
150
120
90
60
30
0
0
3
6
9
12
15
VDS,Drain to Source Voltage (V)

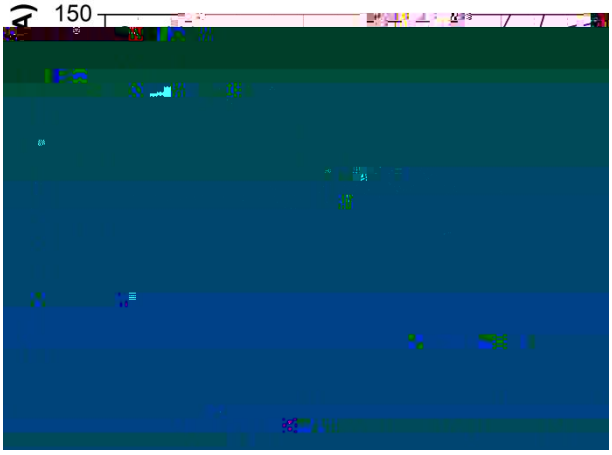

Conditions:
VGS = 18V
TJ = 25℃
tp < 200μs
150
120


Conditions:
TJ = 175℃
tp < 200μs
VGS = 15V
VGS = 13V
150
120

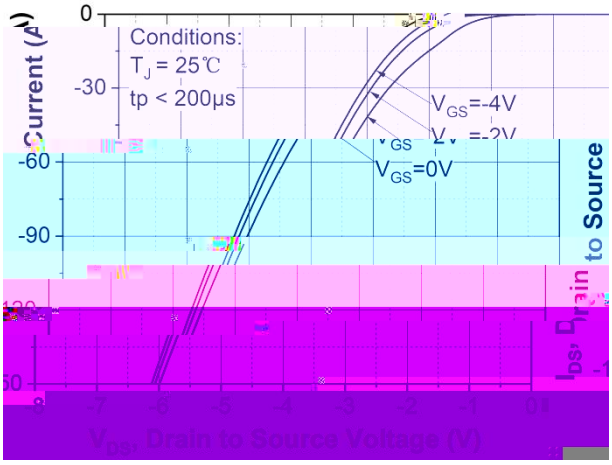

Conditions:
ID = 33.3A
tp < 200μs
VGS = 18V
2.5
2.0
1.0
0.5
0.0
0
25
50
75
100
125
150
175

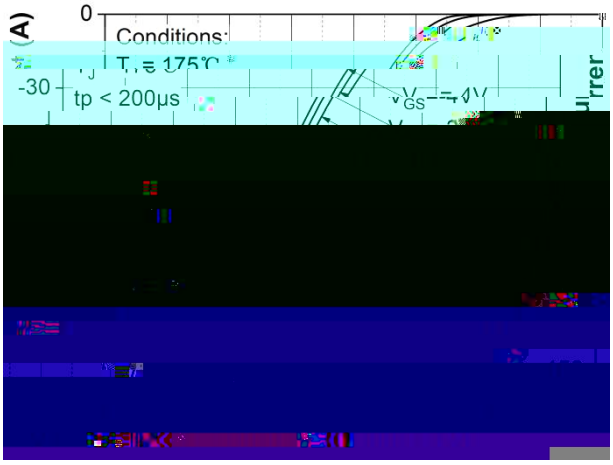

Conditions:
VGS = 15V
120
100
60
40
TJ = 25℃

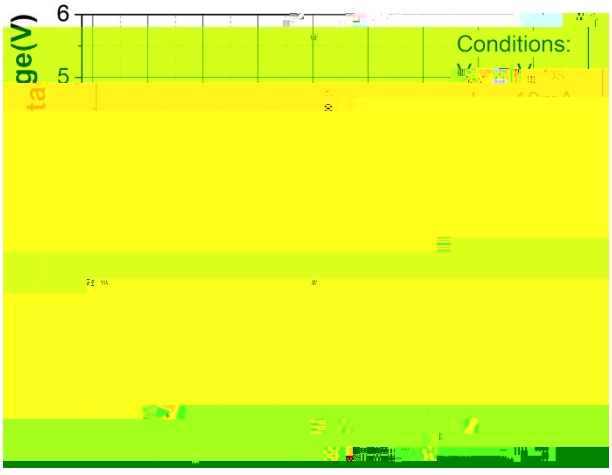

Conditions:
ID = 33.3A
tp < 200μs
VGS=11V
VGS=13V
200
160
120

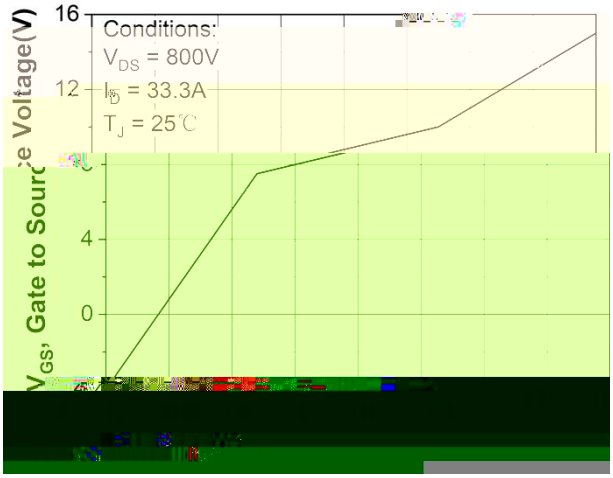

150

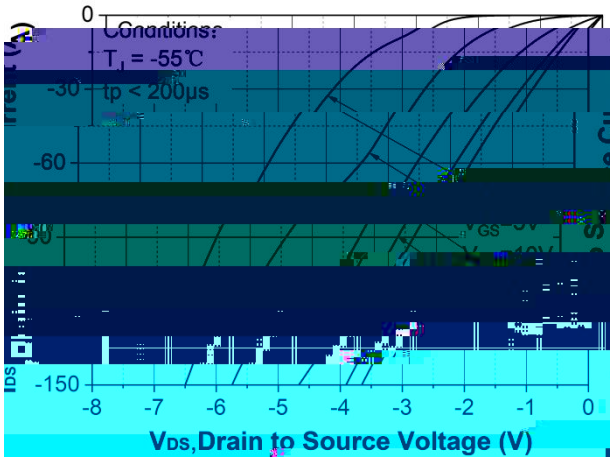

0
Conditions:
T_J = -55℃

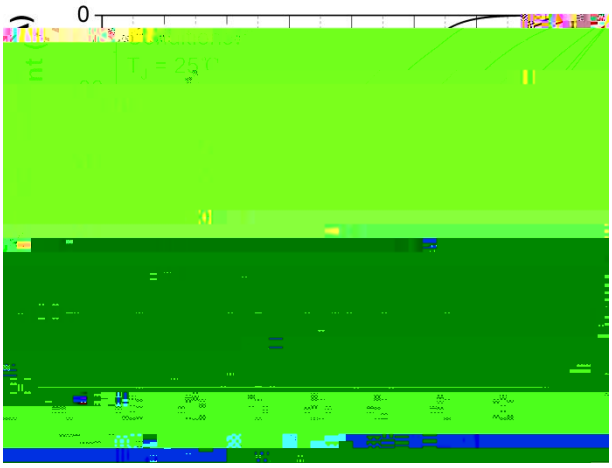

0
Conditions:
T_J = 25℃
tp < 200μs
V_{GS}=-4V
V_{GS}=0V
-30
-60
-90
Current (A)
I_{DS}, Drain to Source
V_{DS}, Drain to Source Voltage (V)

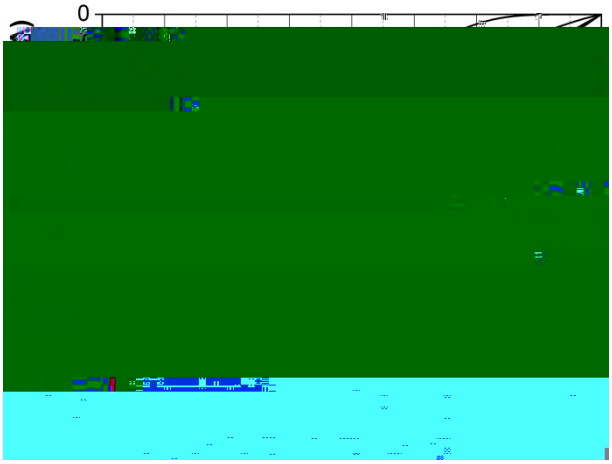

0
Conditions:
tp < 200μs
-30

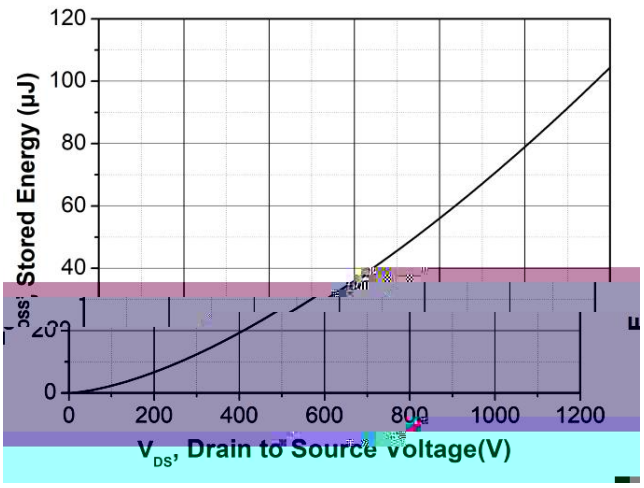

6
5
Conditions:

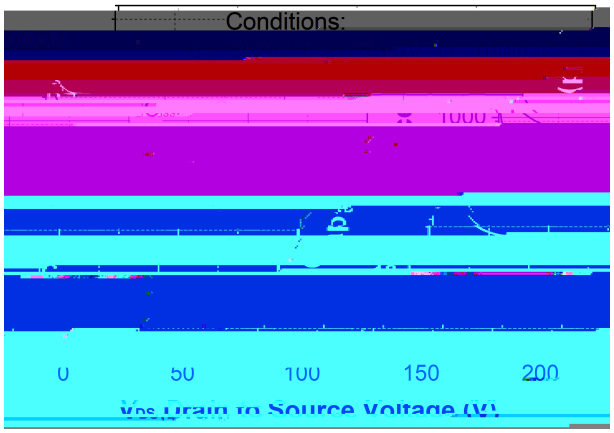

16
12
4
0
Conditions:
V_{DS} = 800V
I_D = 33.3A
T_J = 25℃
V_{GS}, Gate to Sour
e Voltage(V)

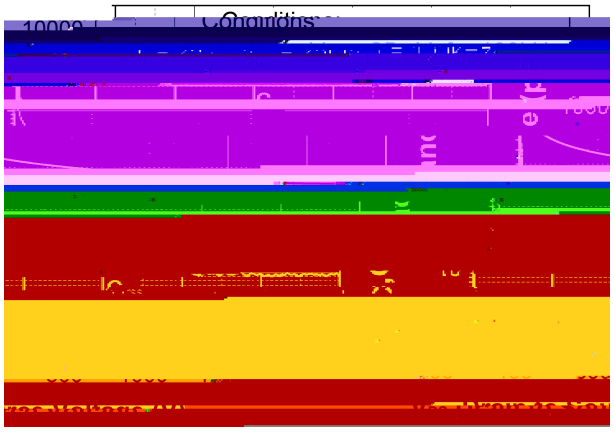

Conditions:
T = -55℃
tp < 200μs
-30
-60
-150
-8 -7 -6 -5 -4 -3 -2 -1 0
VDS,Drain to Source Voltage (V)

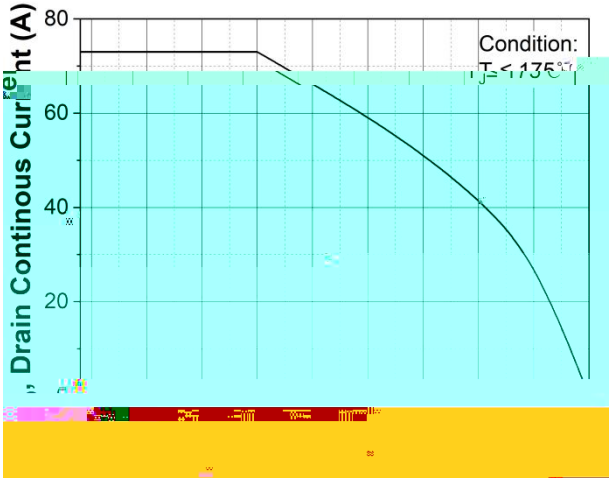

0

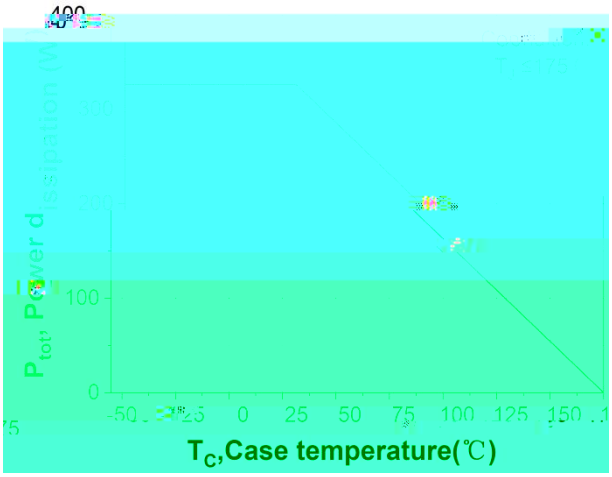

0

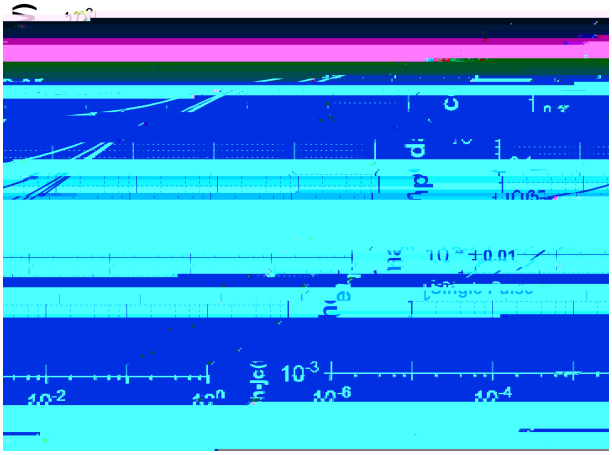

120
100
80
60
40
0
0 200 400 600 800 1000 1200
VDS, Drain to Source Voltage(V)

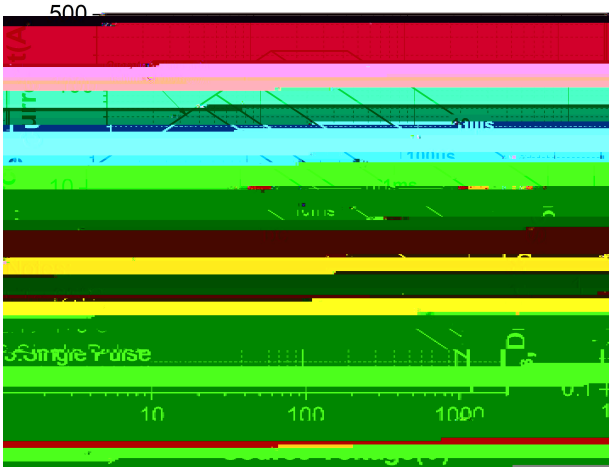

Conditions:
0 50 100 150 200

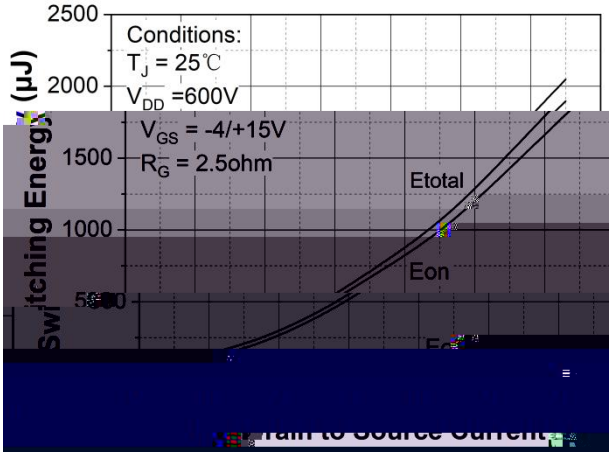

Conditions:

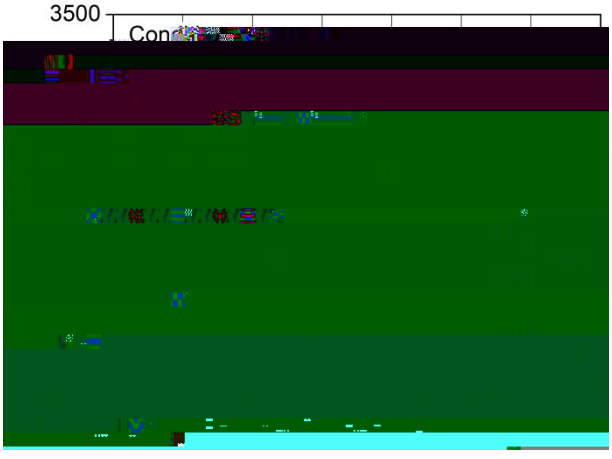

Condition:
80
60
40
20

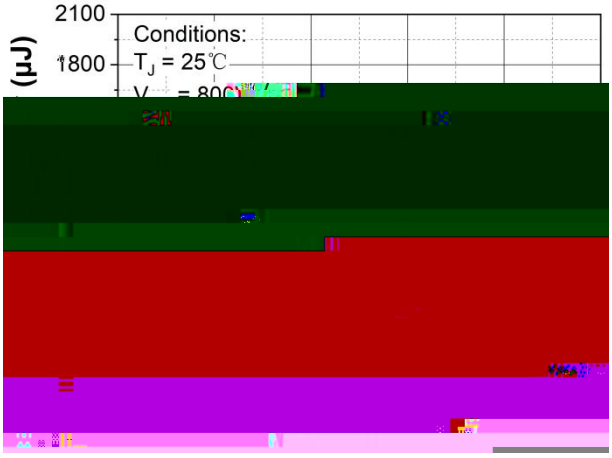

400
300
200
100
0
-50
-25
0
25
50
75
100
125
150
T_C,Case temperature(℃)

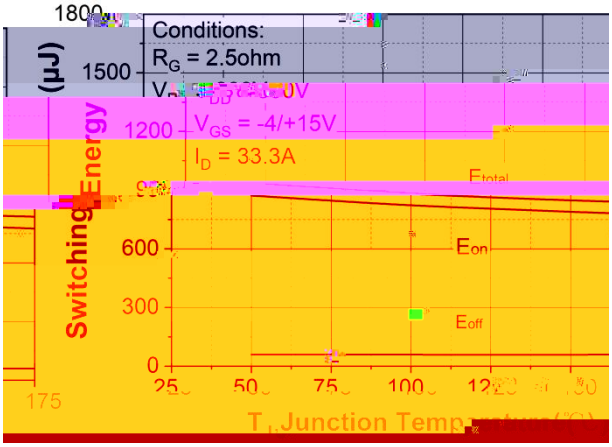


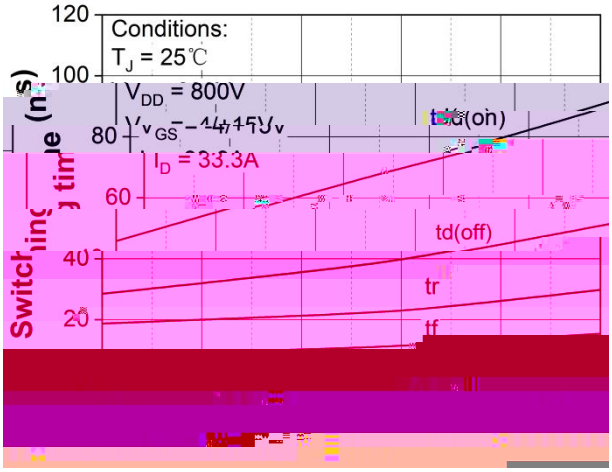

500
100
10
1
Single Pulse
10
100
1000


2500
2000
1500
1000
Conditions:
T_J = 25℃
V_{DD} =600V
V_{GS} = -4/+15V
R_G = 2.5ohm
Etotal
Eon

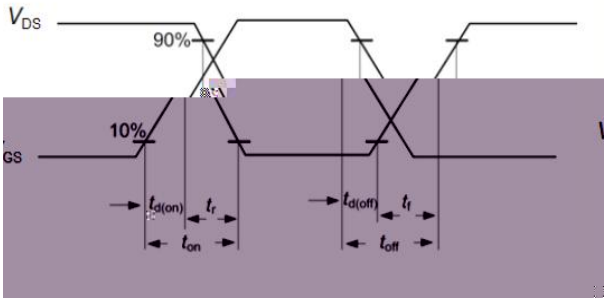

3500

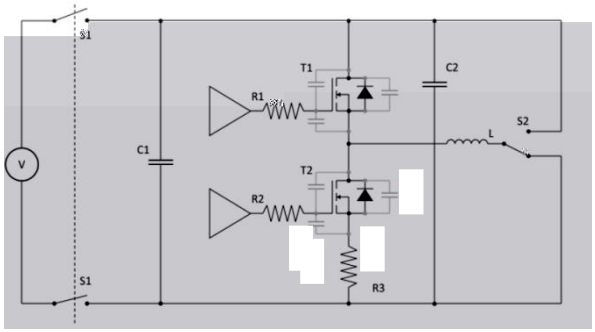

2100
1800
(μJ)
Conditions:
T_J = 25℃

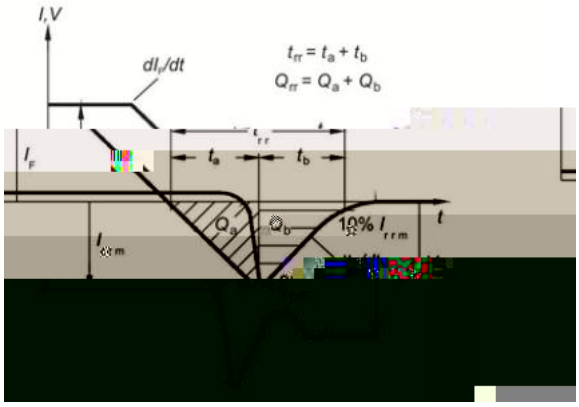

1800
1500
1200
600
300
0
(μJ)
Conditions:
R_G = 2.5ohm
V_{GS} = -4/+15V
I_D = 33.3A
Switching Energy
E_{total}
E_{on}
E_{off}
175
T_J Junction Temp


120
100
80
60
40
20
Conditions:
T_J = 25℃
V_{DD} = 800V
I_D = 33.3A
td(on)
td(off)
tr
tf


D
顶杆孔深h
A
c1


V_{DS}
90%
10%
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
$t_{rr} = t_a + t_b$
$Q_{rr} = Q_a + Q_b$
I_F
t_a
t_b
Q_a
Q_b
10% I_{rrm}
t
I_{rrm}

		——	——
		——	——
		——	——
		——	——
			——