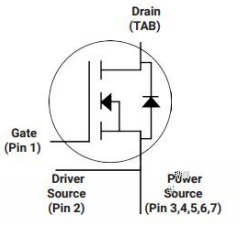

1 2 3 4 5 6 7


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

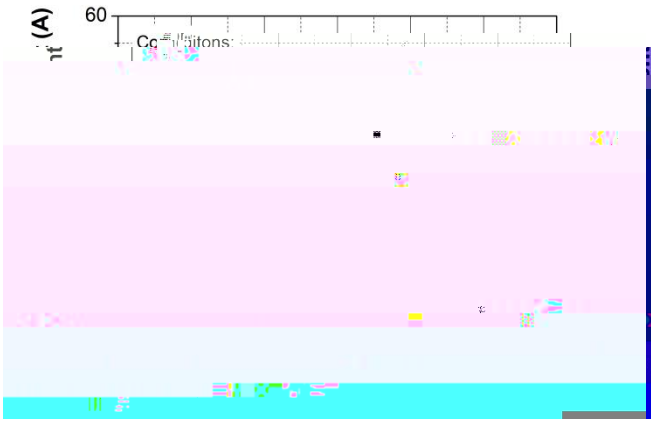
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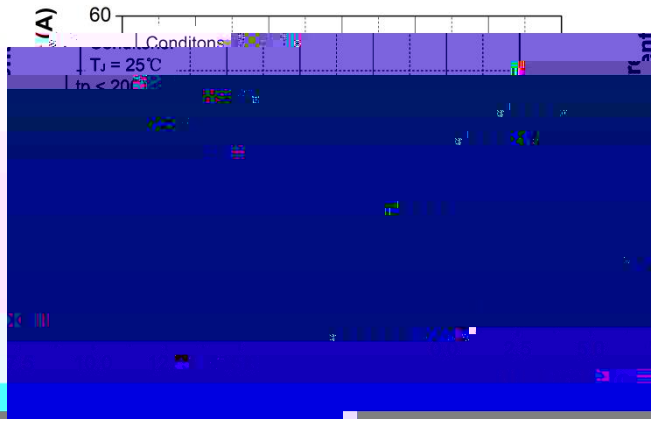
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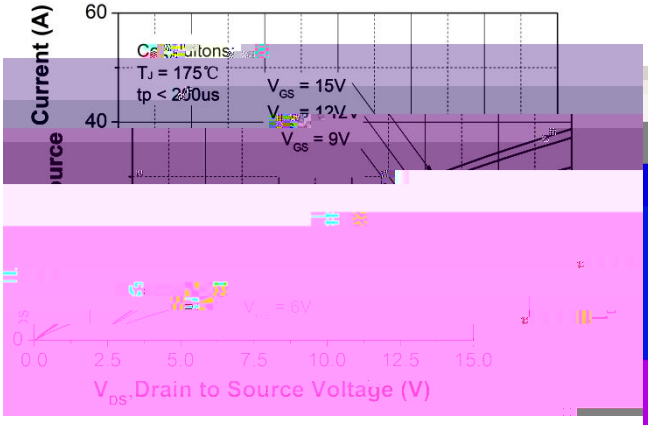
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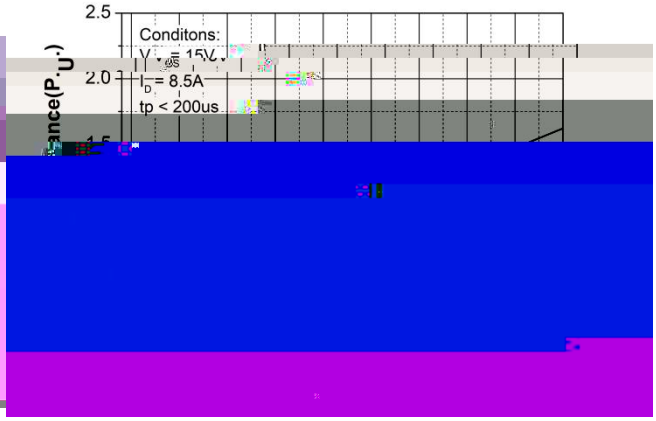
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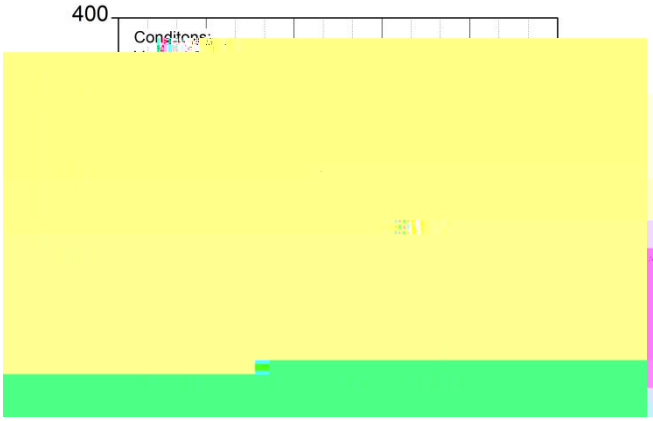
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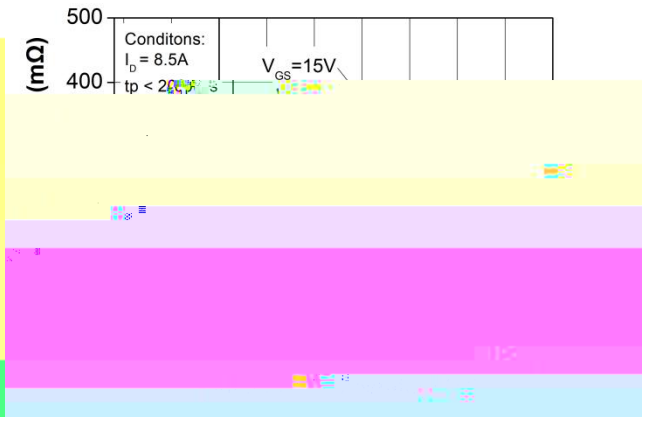


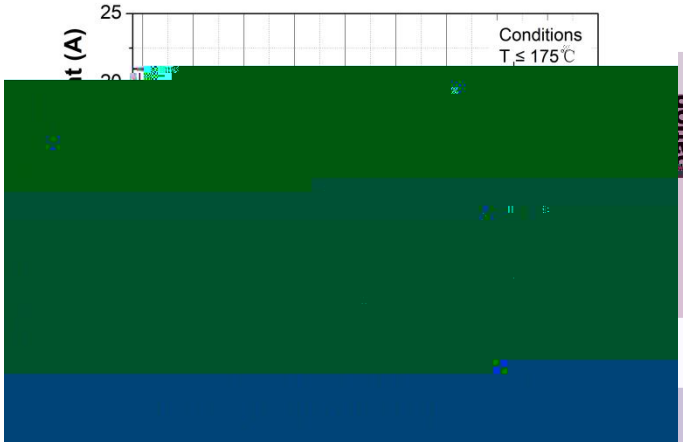

60
Conditons:
TJ = 25℃

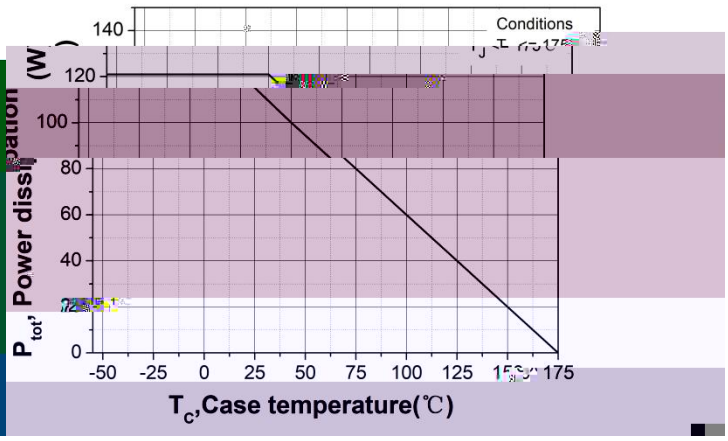

60
40
Conditons:
TJ = 175℃
tp < 200us
VGS = 15V
VGS = 12V
VGS = 9V
VGS = 6V
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
VDS,Drain to Source Voltage (V)

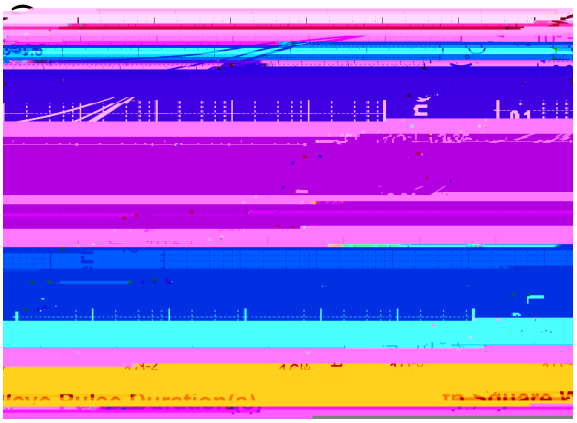

2.5
2.0
Conditons:
VGS = 15V
ID = 8.5A
tp < 200us

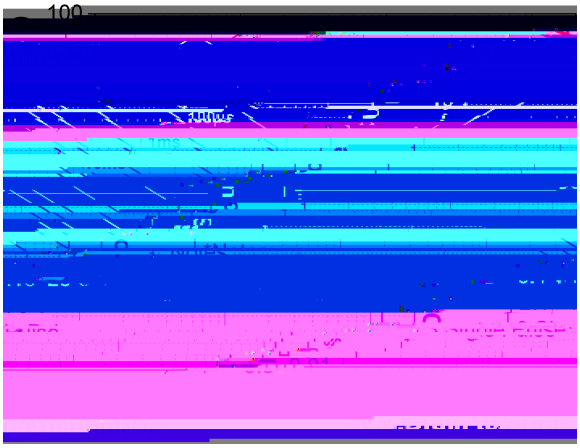

400
Conditons:

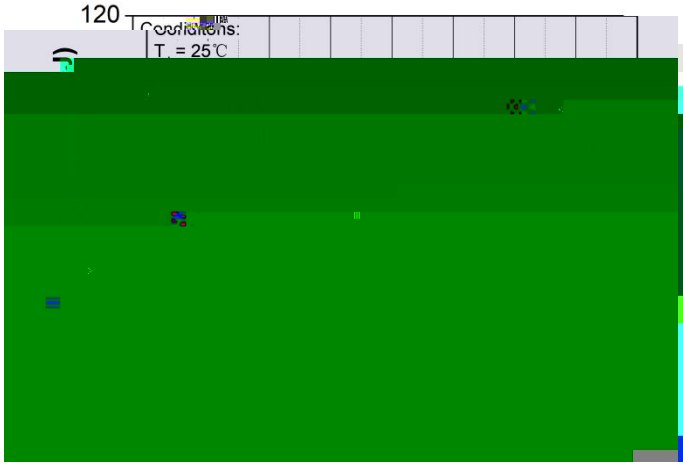

500
400
(mΩ)
Conditons:
ID = 8.5A
VGS=15V

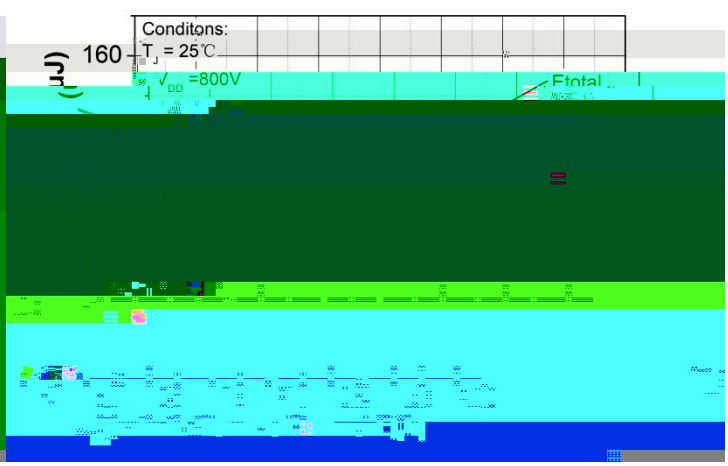

25
Conditions
T ≤ 175℃

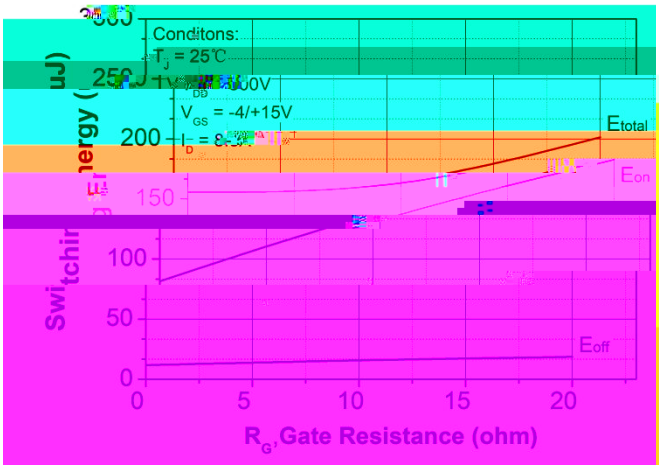

140
120
100
80
60
40
0
Conditions
Power dissipation
P tot'
-50 -25 0 25 50 75 100 125 175
T c,Case temperature(℃)

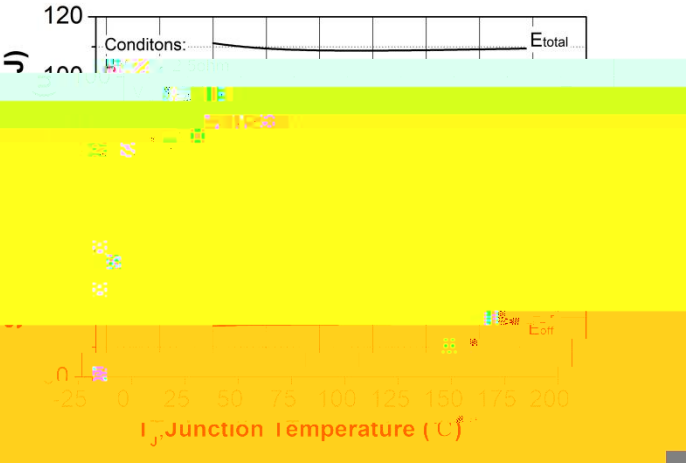


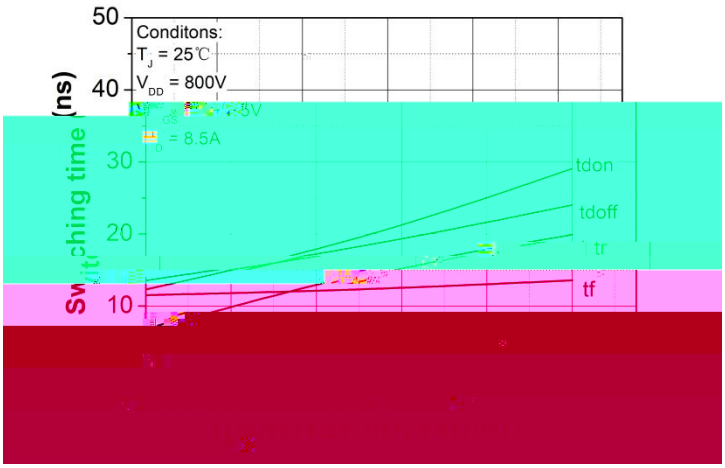

100
1ms

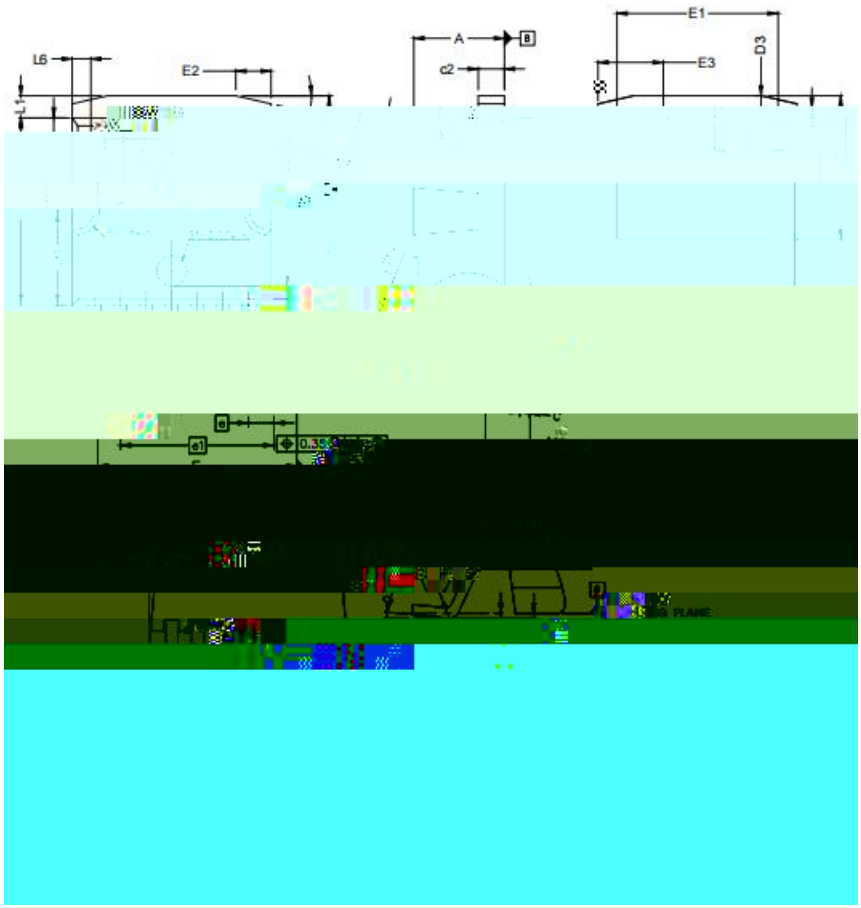

120
Conditions:
T J = 25℃


Conditions:
160
T J = 25℃
V DD =800V
Etotal

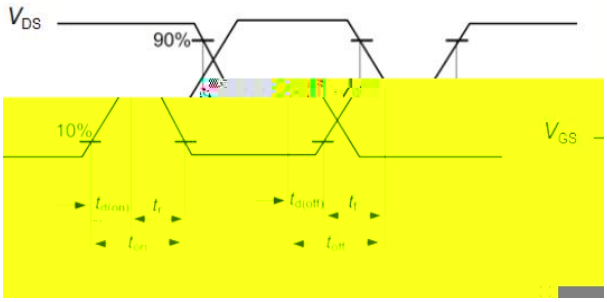

Conditons:
$T_J$ = 25℃
$V_{DD}$ = 800V
$V_{GS}$ = -4/+15V
$I_D$ = 8.5A
Etotal
Eon
Eoff
Switching Energy (uJ)
$R_G$,Gate Resistance (ohm)

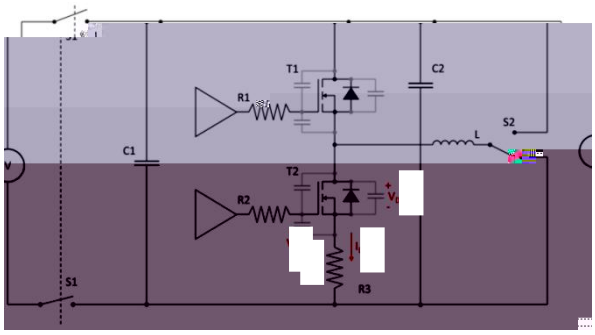

Conditons:
Etotal
Eoff
$T_J$,Junction Temperature (℃)

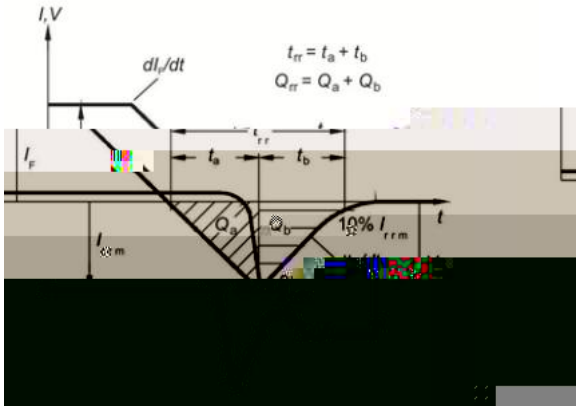

Conditons:
$T_J$ = 25℃
$V_{DD}$ = 800V
$I_D$ = 8.5A
tdon
tdoff
tr
tf
Switching time (ns)




| SYMBOL | MIN | MAX | SYMBOL | MIN | MAX |
|---|---|---|---|---|---|
| A | 4.30 | 4.70 | L | 1.78 | 2.79 |
| A1 | | | | | |
| b3 | 0.60 | 0.75 | L6 | 0.93BSC | |
| c | 0.45 | 0.60 | H | 14.61 | 16.88 |
| | 0.45 | 0.55 | | | |
| c2 | | | | | |


$V_{DS}$
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

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