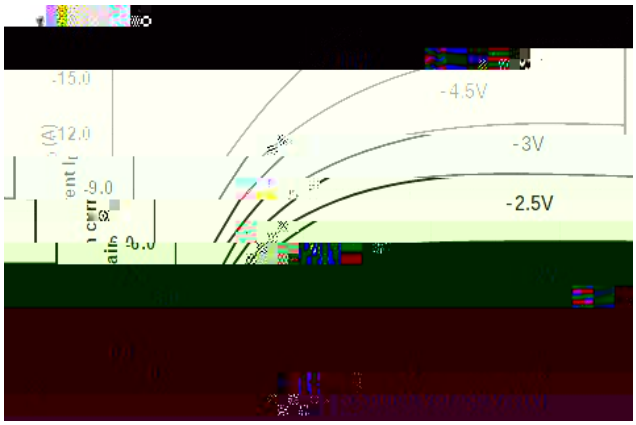
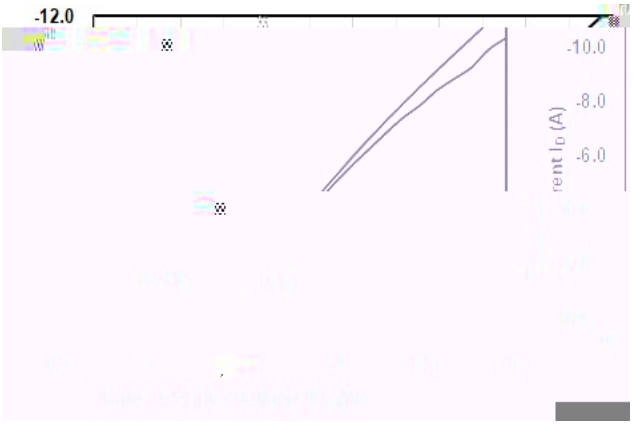
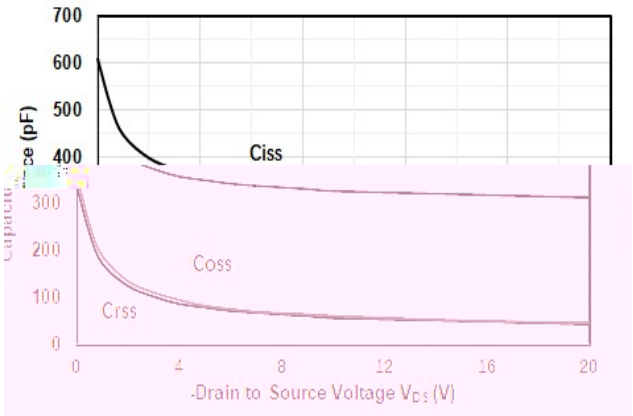
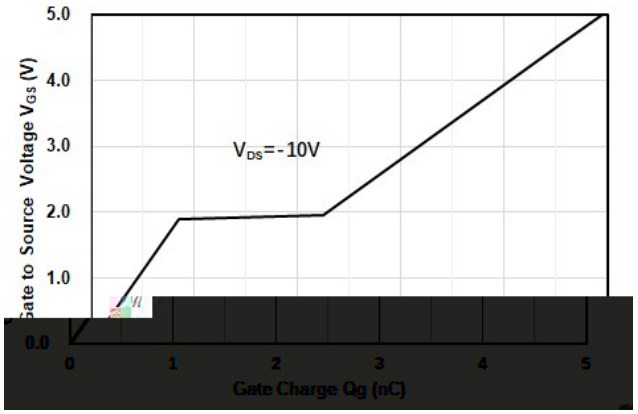
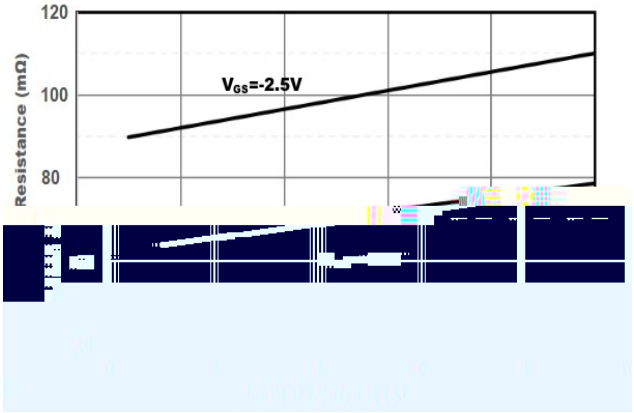
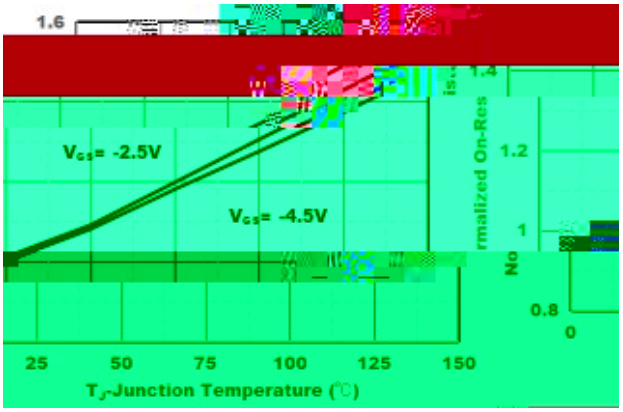

-15.0
-12.0
-9.0
-4.5V
-3V
-2.5V

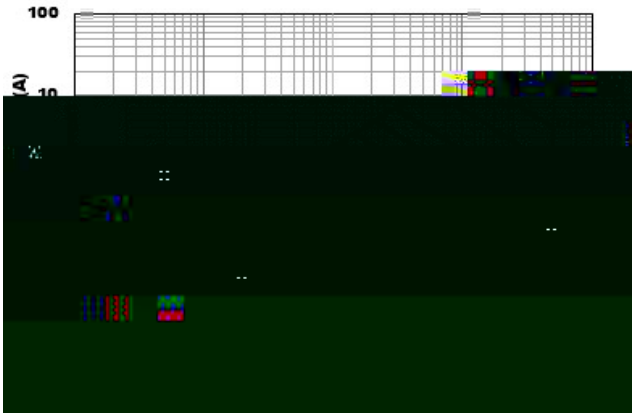

-12.0
-10.0
-8.0
-6.0

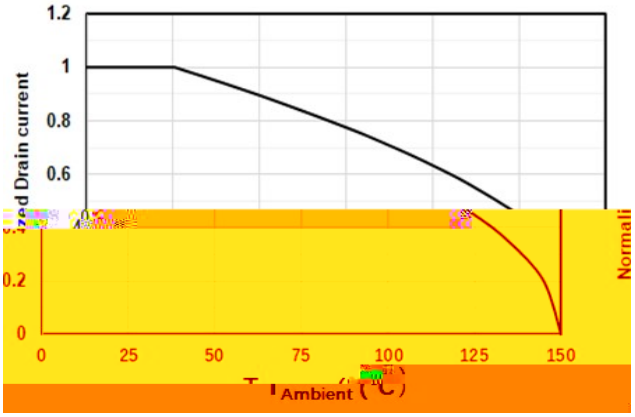

700
600
500
400
300
200
100
0
Ciss
Coss
Crss
0
4
8
12
16
20
-Drain to Source Voltage V_{DS} (V)

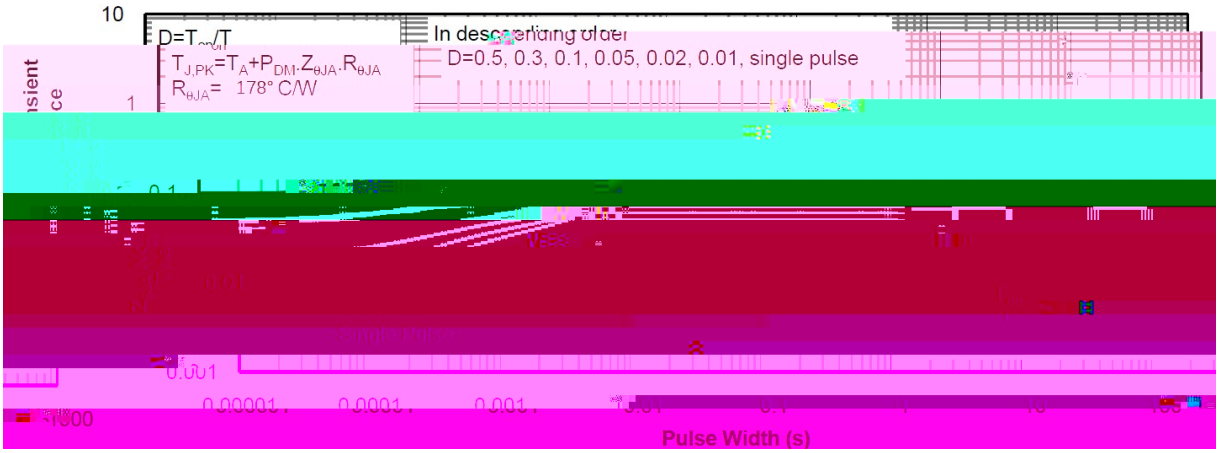

5.0
4.0
3.0
2.0
1.0
0.0
V_{DS}=-10V
0
1
2
3
4
5
Gate Charge Qg (nC)

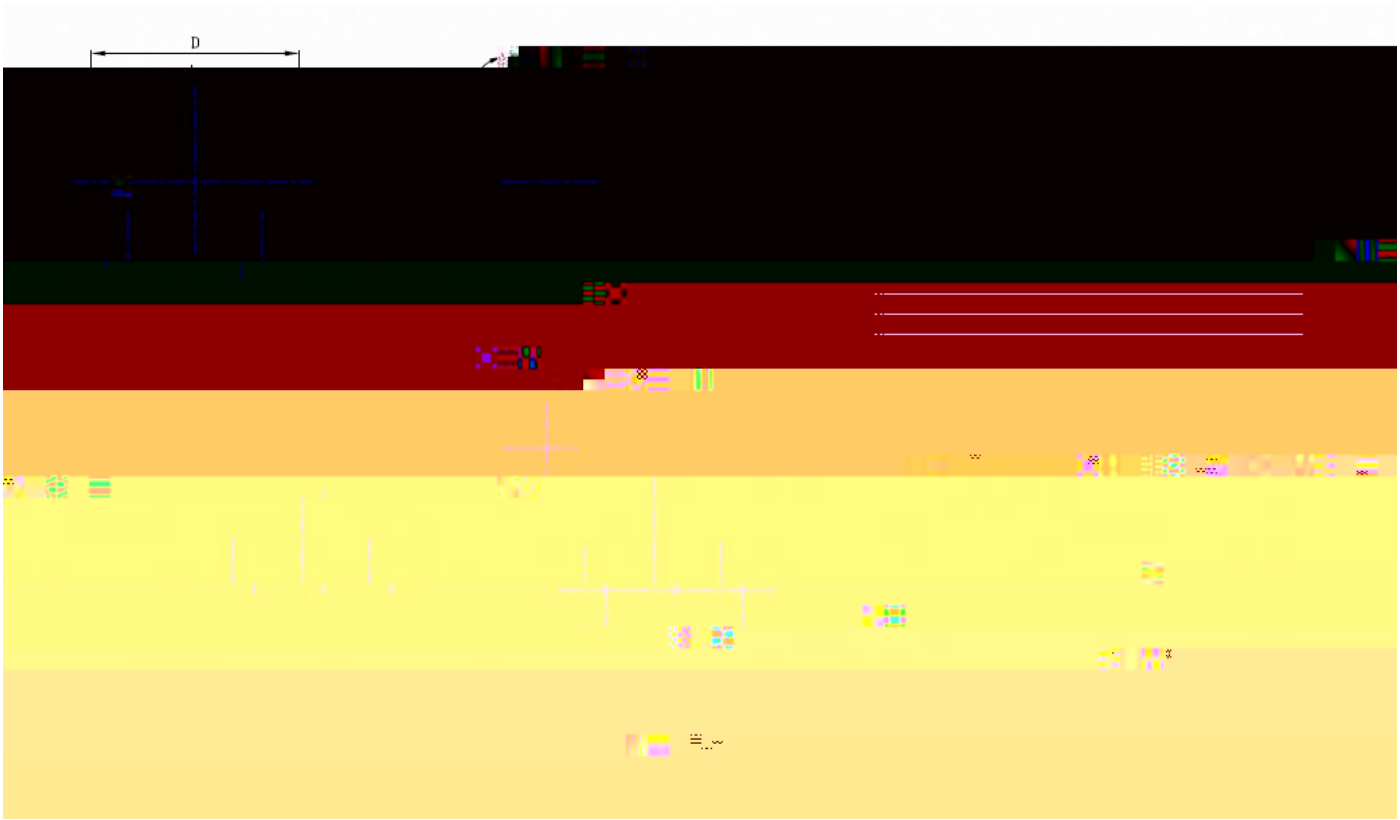

120
100
80
Resistance (mΩ)
V_{GS}=-2.5V


1.6
1.4
1.2
1
0.8
V_{GS}= -2.5V
V_{GS}= -4.5V
25
50
75
100
125
150
T_J-Junction Temperature (℃)


100
(A)
10


1.2
1
0.8
0.6
0.2
0
0
25
50
75
100
125
150
Ambient (°C)


10
1
0.1
0.01
0.001
D=T
In descending order
D=0.5, 0.3, 0.1, 0.05, 0.02, 0.01, single pulse
$T_{J,PK}=T_A+P_{DM}\cdot Z_{\theta JA}\cdot R_{\theta JA}$
$R_{\theta JA}$= 178° C/W
Single Pulse
0.00001
0.0001
0.001
0.01
0.1
1
10
100
1000
Pulse Width (s)


D

7 K H