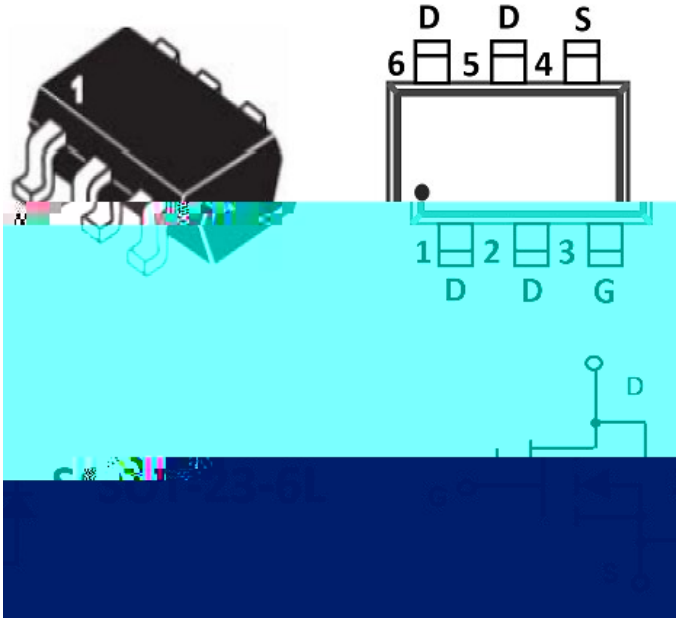
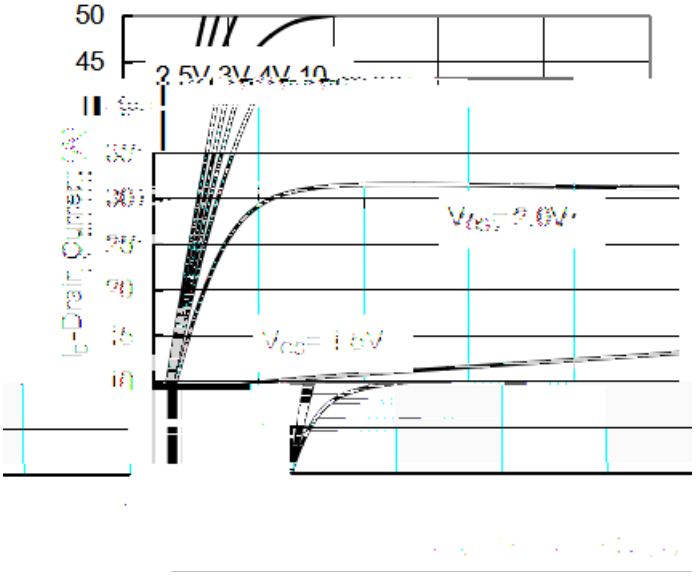
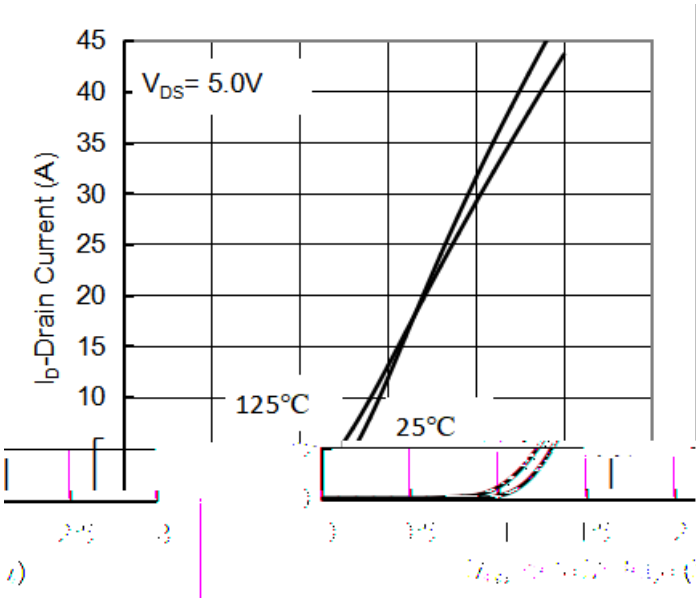
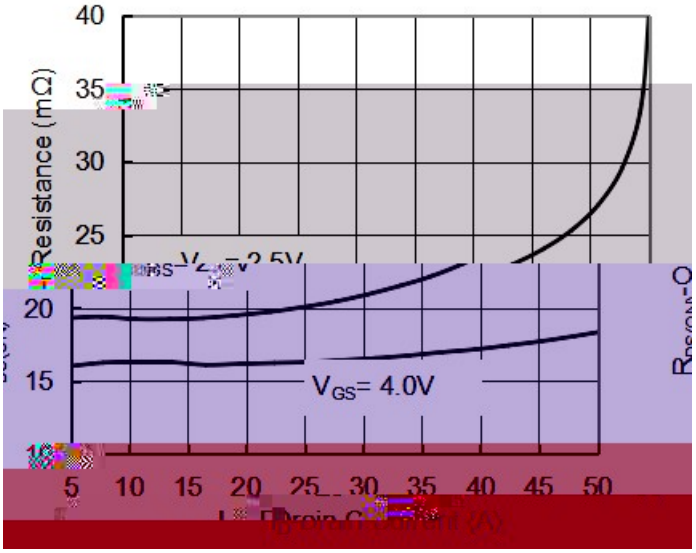
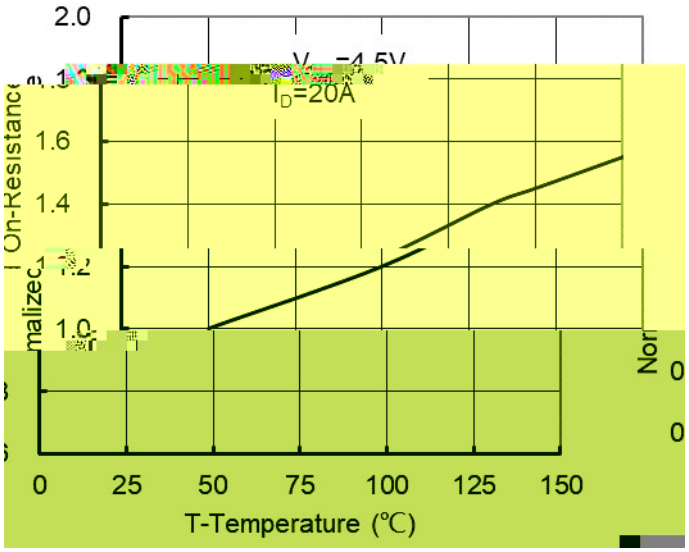
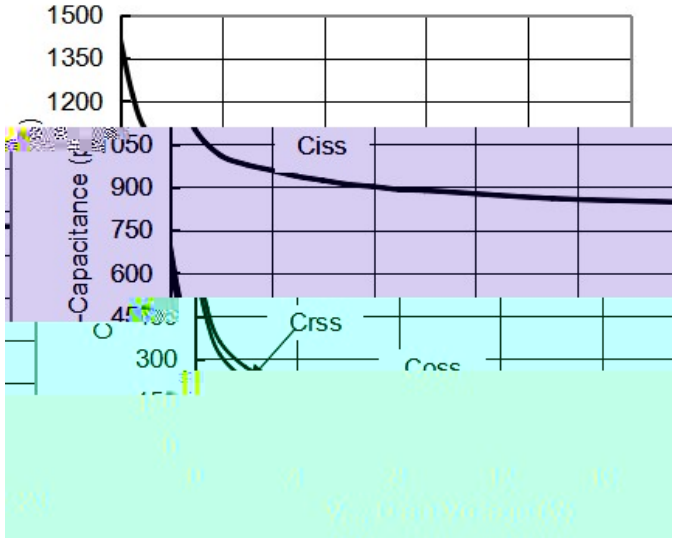

D D S
6 5 4
1
1 2 3
D D G
D

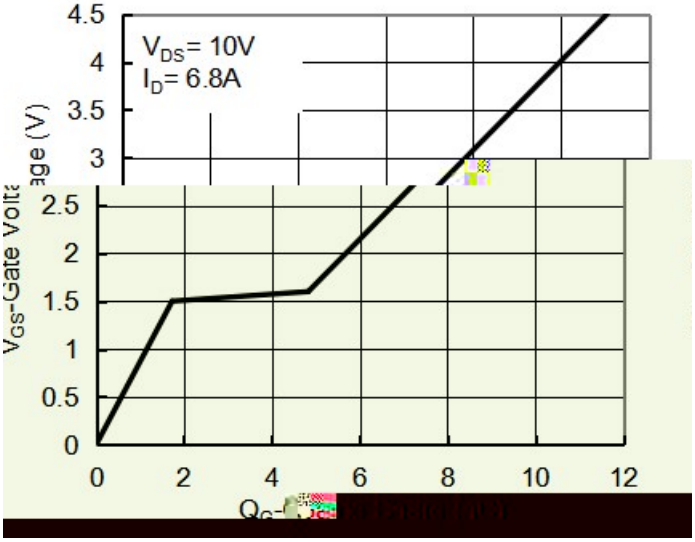


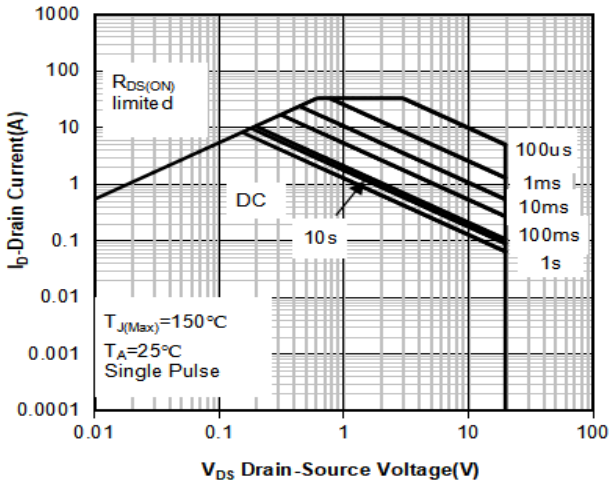

V_{DS}= 5.0V
I_D-Drain Current (A)
125℃
25℃

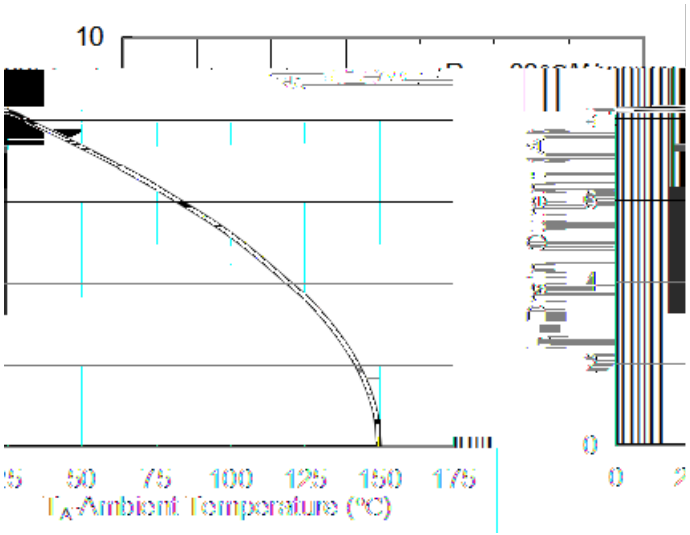

Resistance (mΩ)
V_{GS}= 4.0V

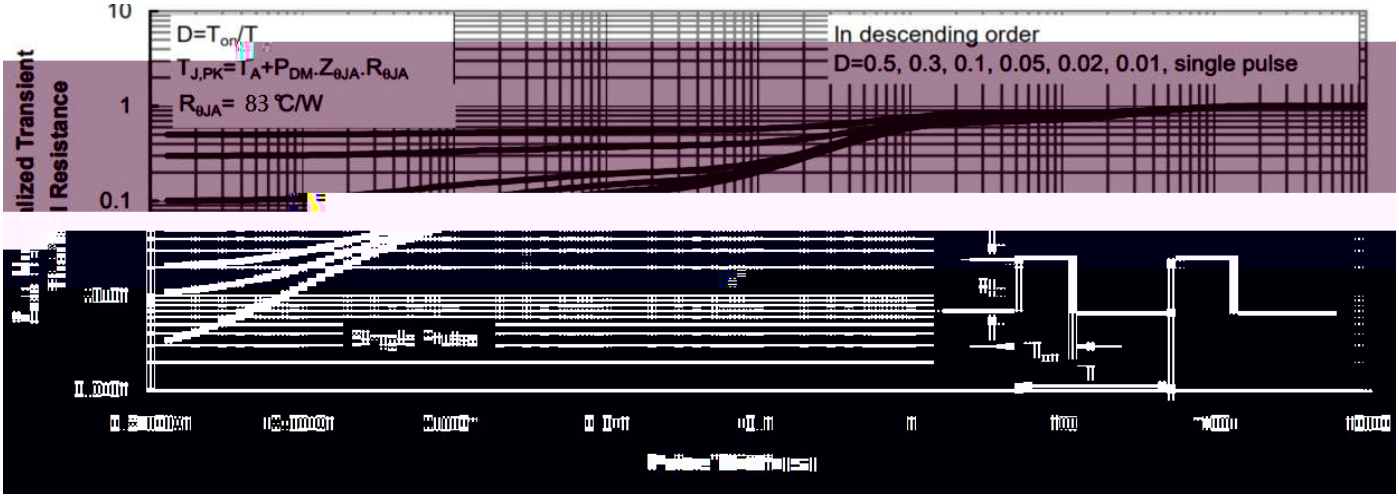

I_D=20A
T-Temperature (℃)

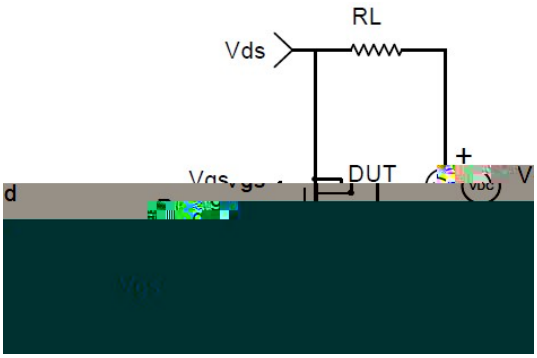

Ciss
Crss
Coss

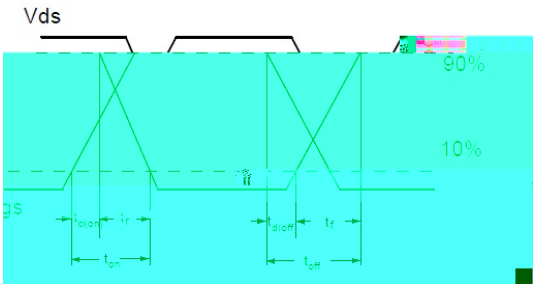

V_{DS}= 10V
I_D= 6.8A

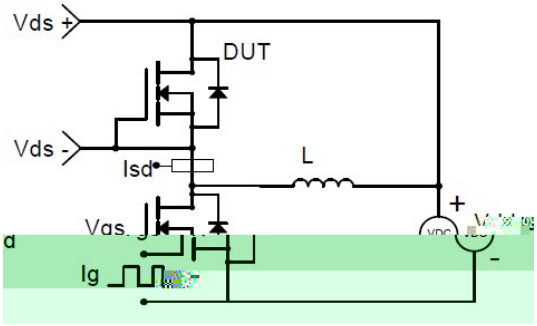

1000
100
10
1
0.1
0.01
0.001
0.0001
0.01
0.1
1
10
100
$R_{DS(ON)}$ limited
DC
10s
100us
1ms
10ms
100ms
1s
$T_{J(Max)}$=150°C
T_A=25°C
Single Pulse
I_D-Drain Current(A)
V_{DS} Drain-Source Voltage(V)

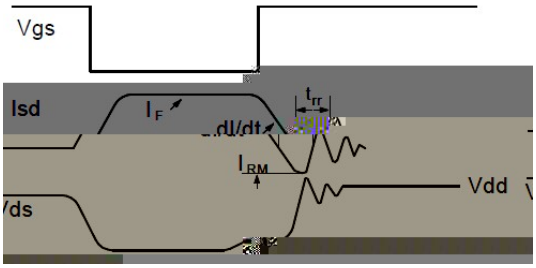

10
0
T_A-Ambient Temperature (°C)

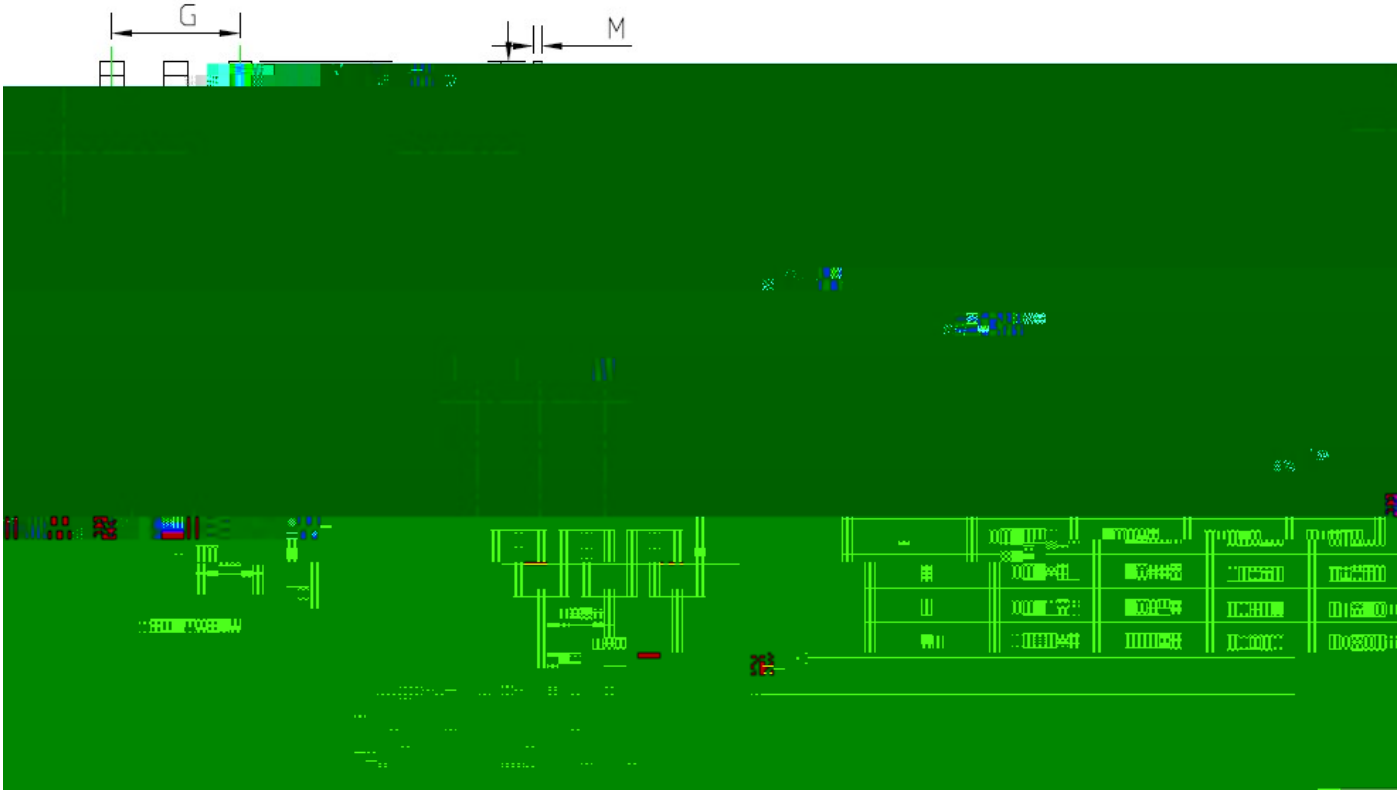

10
1
0.1
D=T_{on}/T
$T_{J,PK}$=T_A+P_{DM}.$Z_{\theta JA}$.$R_{\theta JA}$
$R_{\theta JA}$= 83 °C/W
In descending order
D=0.5, 0.3, 0.1, 0.05, 0.02, 0.01, single pulse
lized Transient
l Resistance


RL
Vds
DUT
+
V
d


Vds
90%
10%


Vds +
DUT
Vds -
Isd
L
+
d
Ig
-


Vgs
Isd
I_F
t_{rr}
I_{RM}
Vdd
/ds


G
M