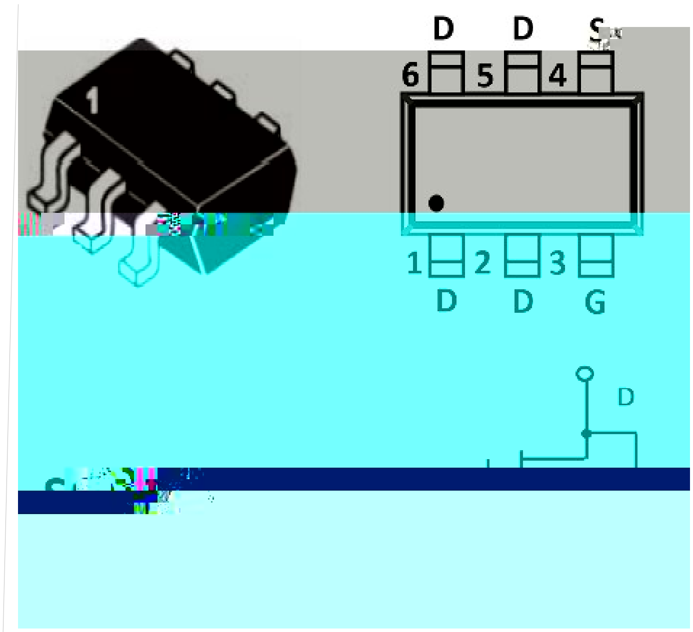

■ (T =25 unless otherwise noted)

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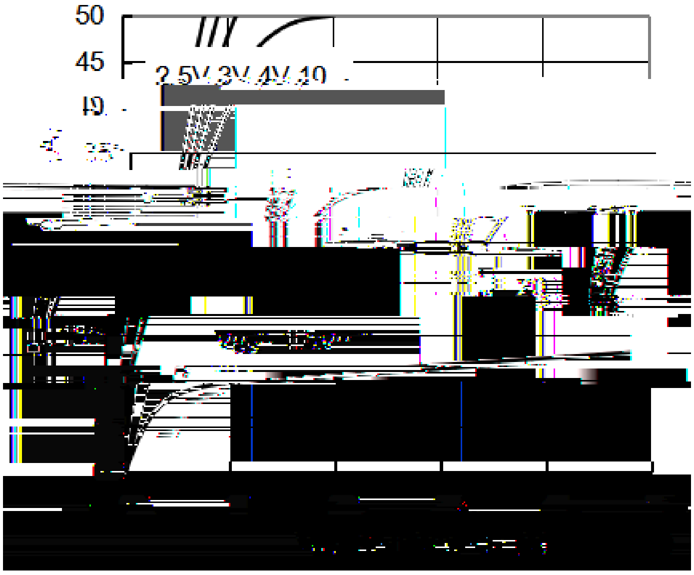
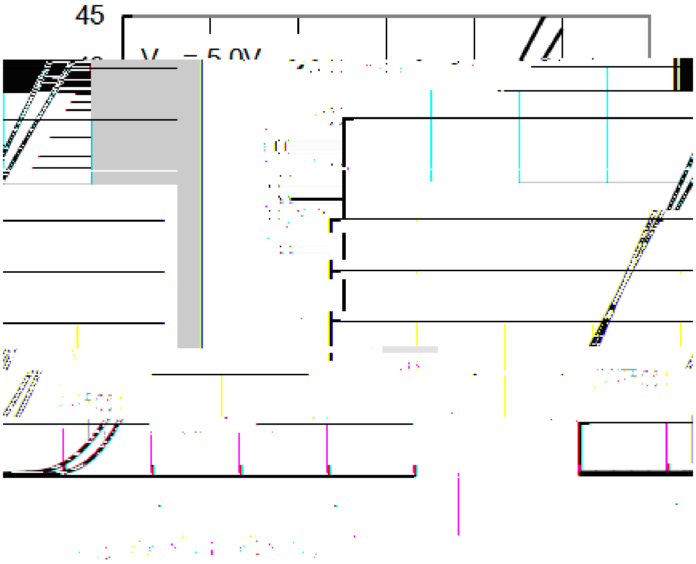
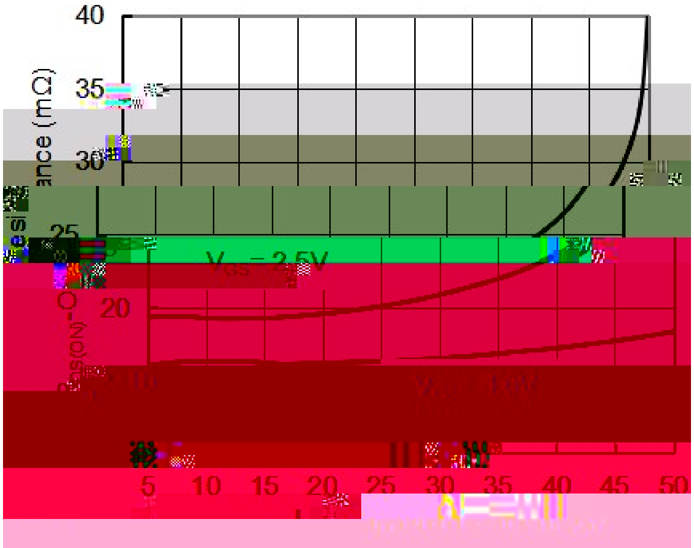
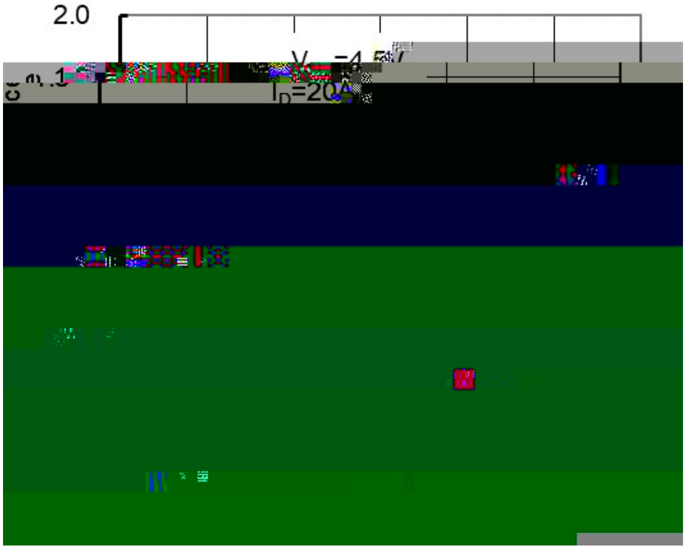
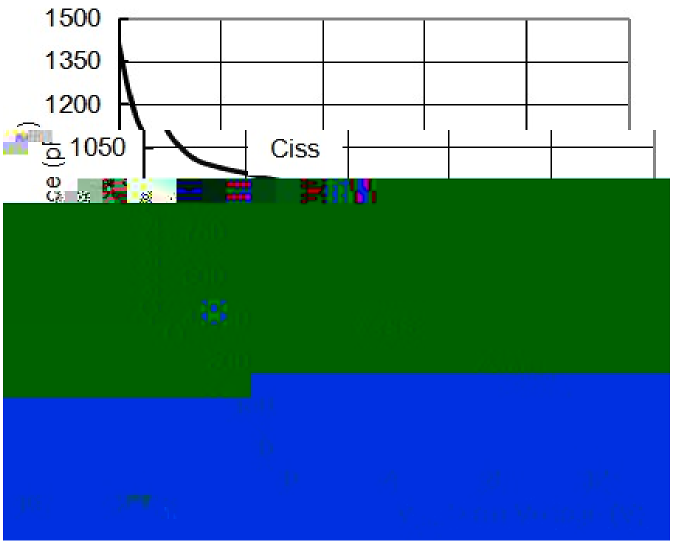
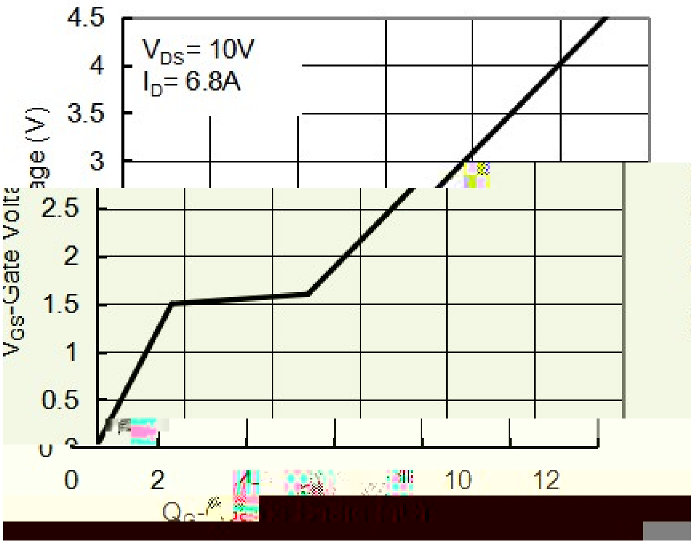

50
45
40
2.5V 3V 4V 10

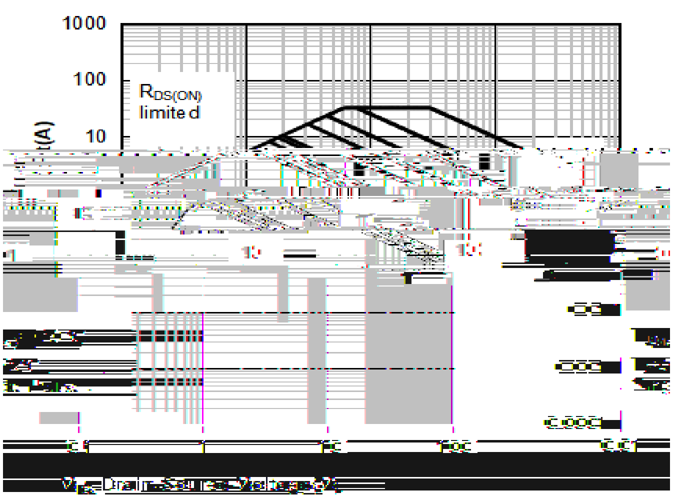

45
V = 5.0V

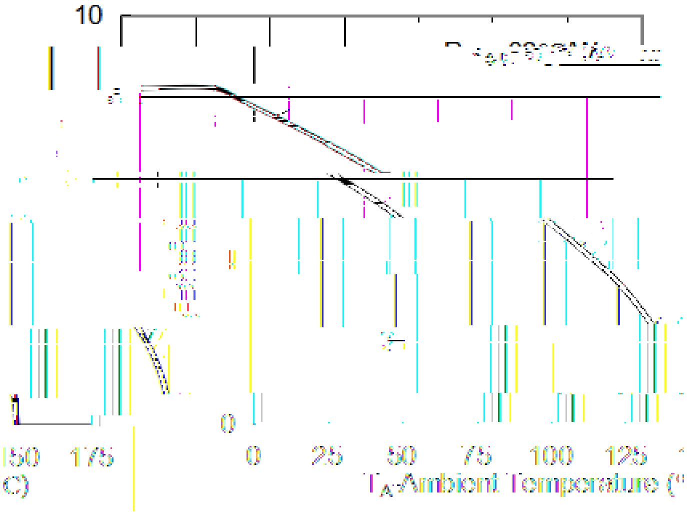

40
35
30
25
20
ance (mΩ)
V_{GS} = 2.5V
V = 10V
5
10
15
20
25
30
35
40
45
50

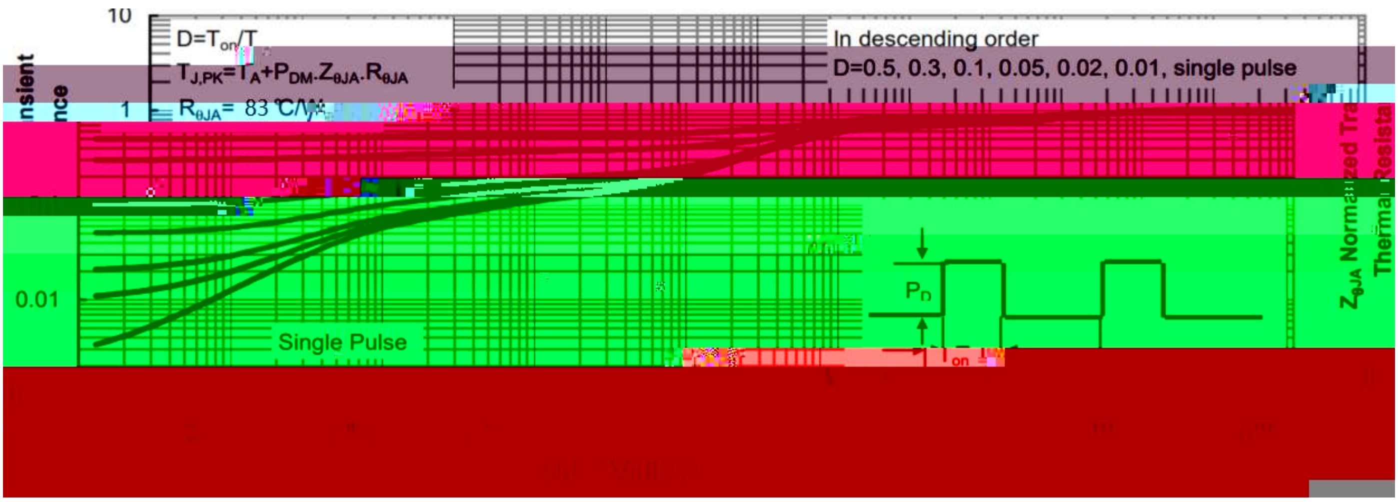

2.0
V = 4.5V
I_D=20A

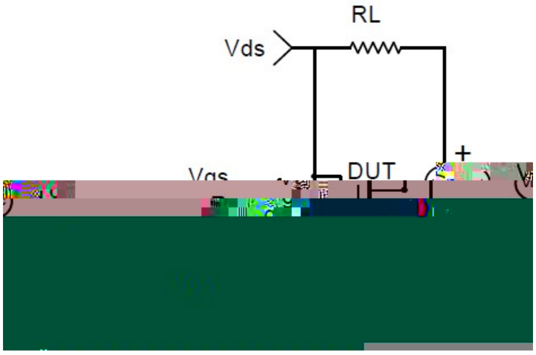

1500
1350
1200
1050
Ciss
ce (pF)

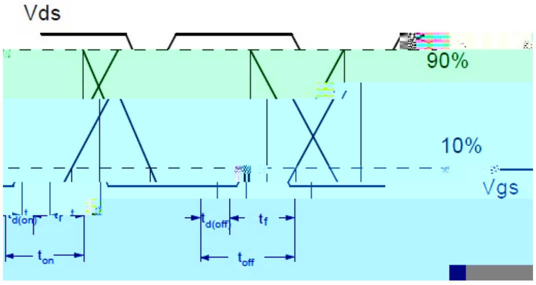

4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
V_{DS}= 10V
I_D= 6.8A
V_{GS}-Gate Voltage (V)
0
2
10
12
Q_G-

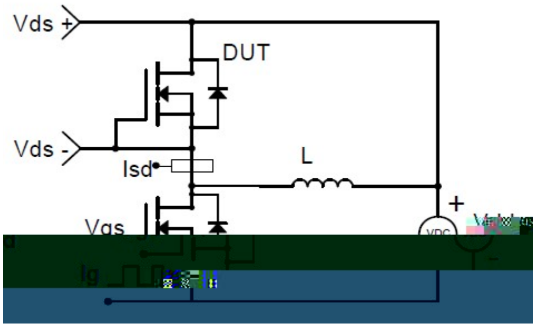

1000
100
10
RDS(ON) limited
(A)
10
100
0.01
VDS-Drain-Source Voltage (V)

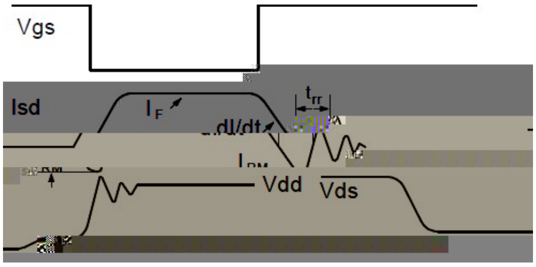

10
0
150
175
0
25
50
75
100
125
TA-Ambient Temperature (°C)


10
1
0.01
D=Ton/T
TJ,PK=TA+PDM·ZθJA·RθJA
RθJA= 83 °C/W
In descending order
D=0.5, 0.3, 0.1, 0.05, 0.02, 0.01, single pulse
Single Pulse
PD
Ton
ZθJA Normalized Transient Thermal Resistance

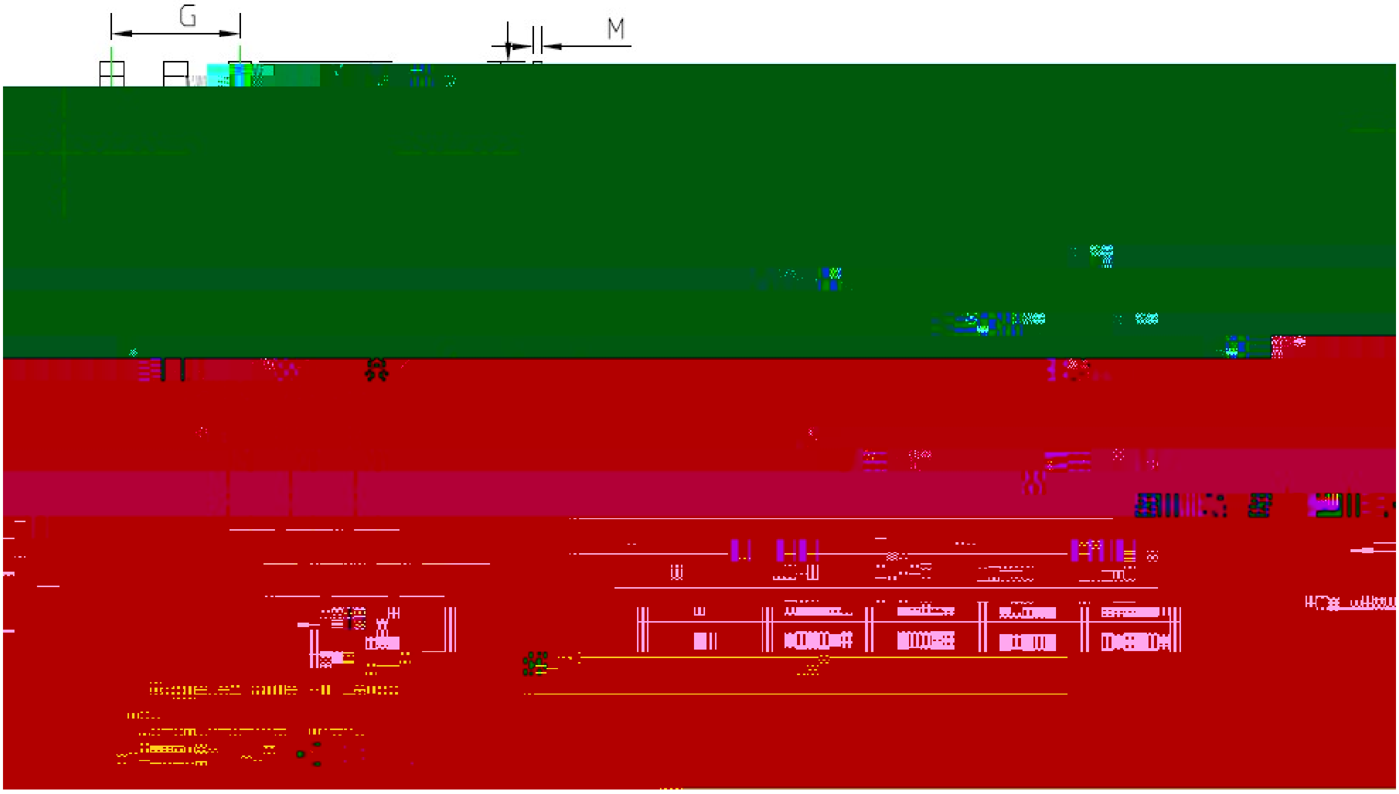

RL
Vds
Vgs
DUT
+


Vds
90%
10%
Vgs
td(on)
tr
td(off)
tf
ton
toff


Vds +
DUT
Vds -
Isd
L
Vgs
+
Ig


Vgs
Isd
IF
dI/dt
trr
IRM
Vdd
Vds

■


G
M