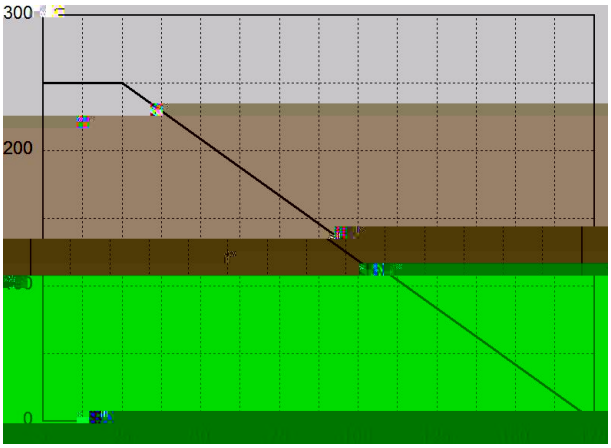
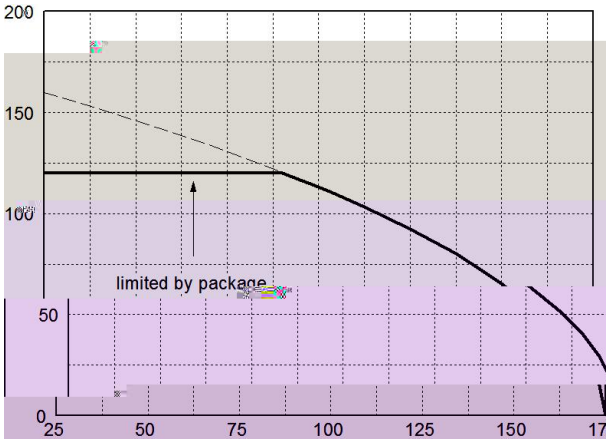
-
-

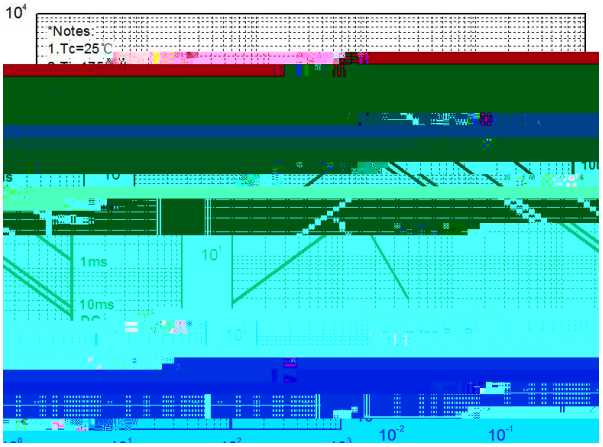
G D S

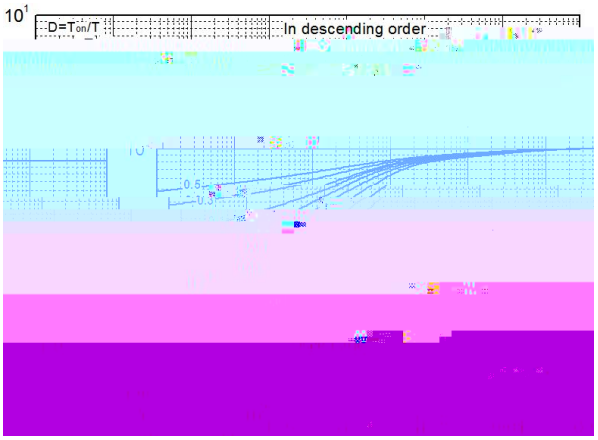
G D S

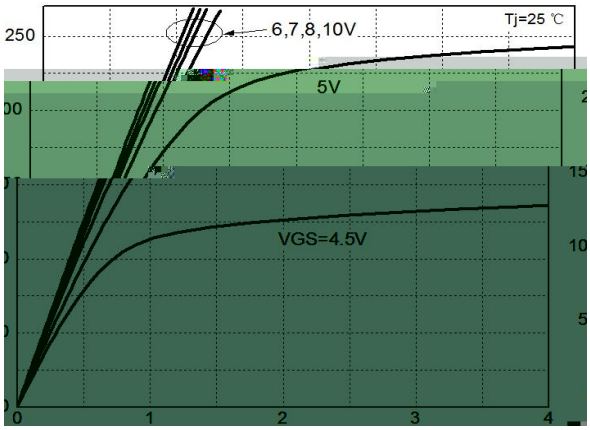
θ				
θ				

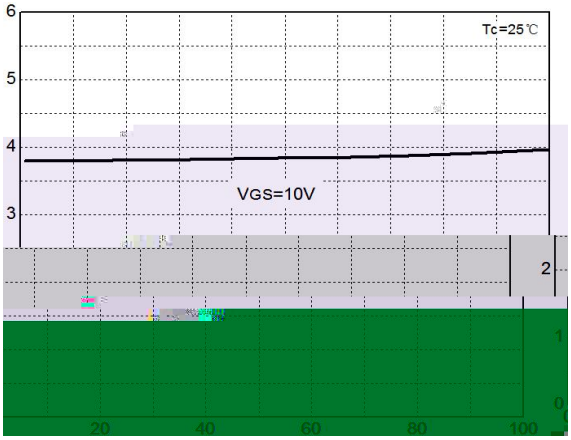

300
200
0

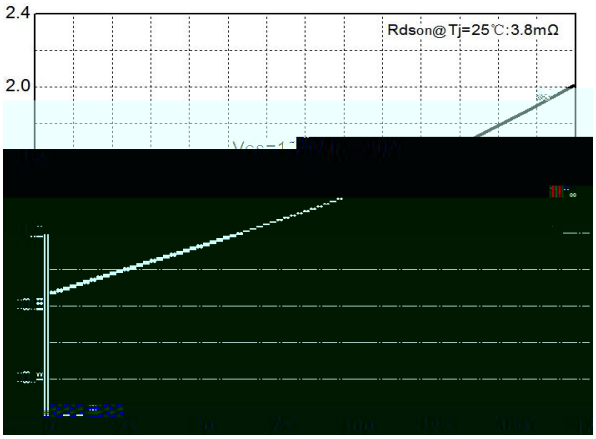

200
150
100
50
0
limited by package
25
50
75
100
125
150
17

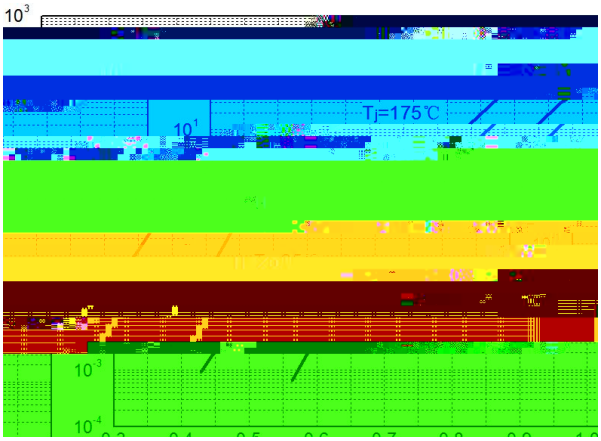

10⁴
Notes:
1.Tc=25℃
1ms
10ms
10¹
10⁻²
10⁻¹


10¹
D=Ton/T
In descending order
0.5

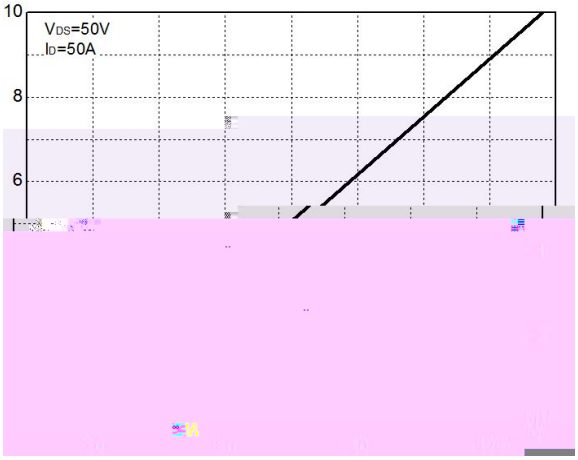

250
6,7,8,10V
Tj=25 ℃
5V
VGS=4.5V
0
1
2
3
4

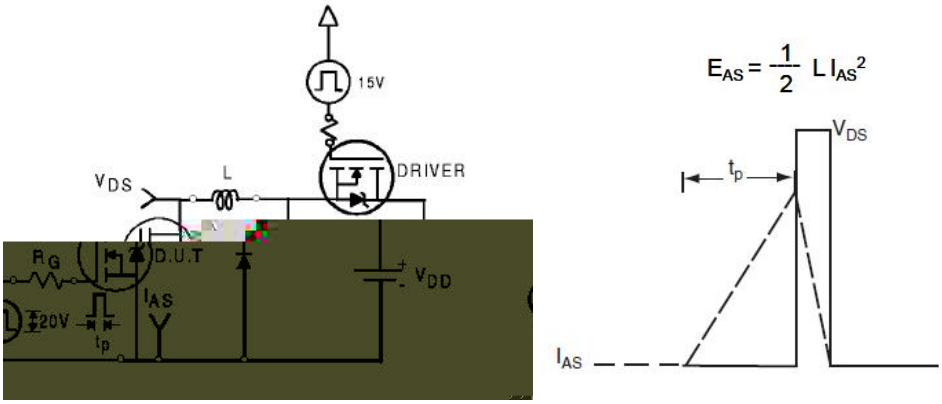

6
5
4
3
2
Tc=25℃
VGS=10V
20
40
60
80
100

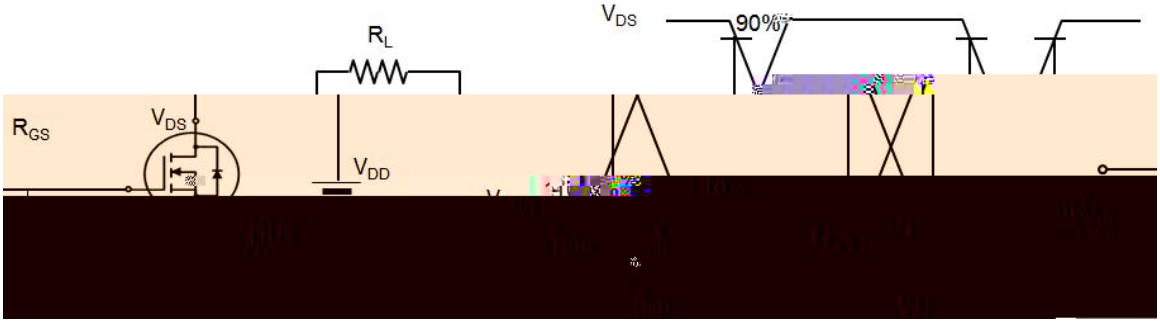

2.4
2.0
Rdson@Tj=25℃:3.8mΩ

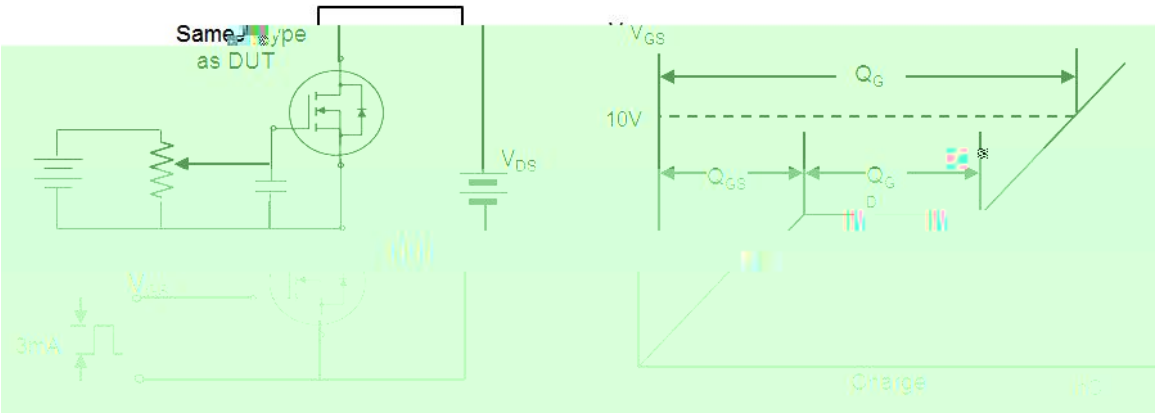

10^3
10^1
Tj=175℃
10^-3
10^-4

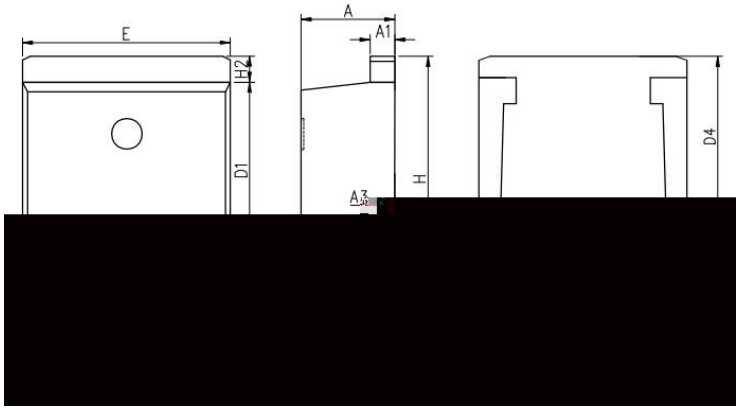
1E-7
1E-8
Ciss
Coss
1E-9
1E-10
Crss
1E-11

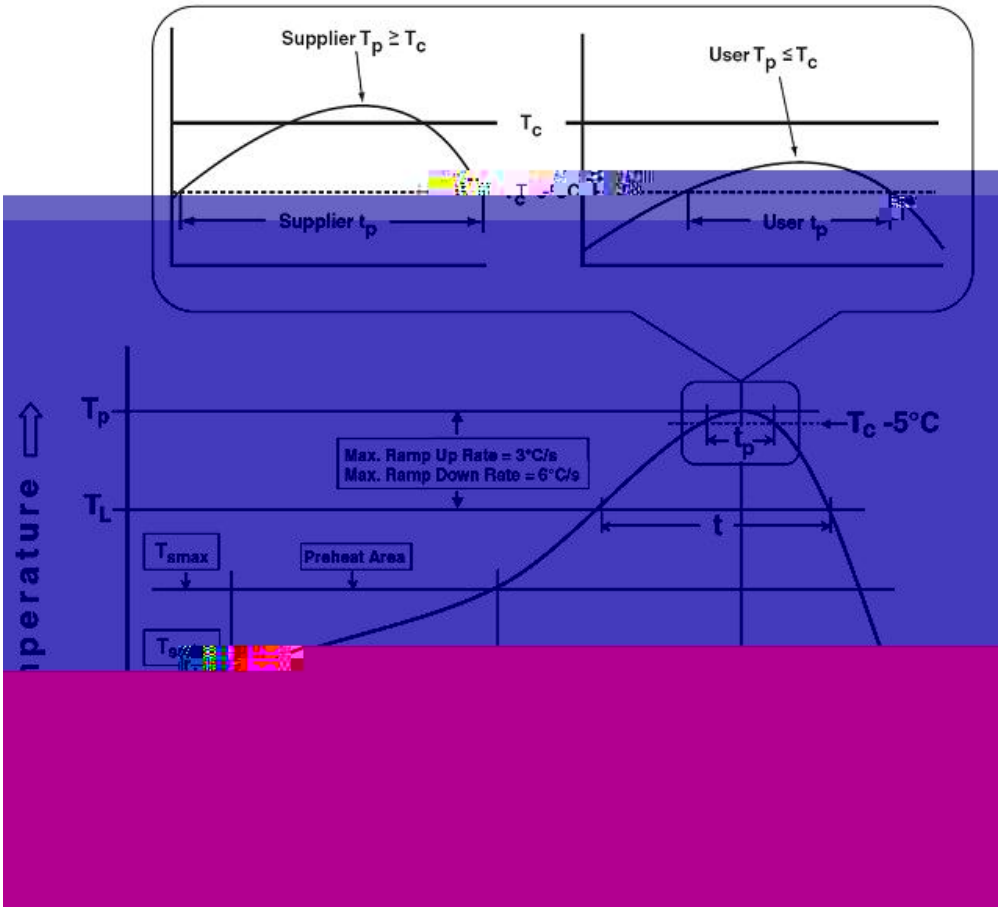

10
8
6
VDS=50V
ID=50A


15V
DRIVER
VDS
L
RG
D.U.T
IAS
20V
tp
VDD
EAS = 1/2 L IAS2
VDS
tp
IAS


RL
VDS
90%
RGS
VDS
VDD


Same type
as DUT
VDS
VGS
QG
10V
QGS
QGD
3mA
Charge


E
H2
D1
A
A1
H
A3
D4


Supplier $T_p \geq T_c$
User $T_p \leq T_c$
T_c
Supplier t_p
User t_p
T_p
T_L
T_{smax}
Preheat Area
Max. Ramp Up Rate = 3°C/s
Max. Ramp Down Rate = 6°C/s
t_p
T_c -5°C
t