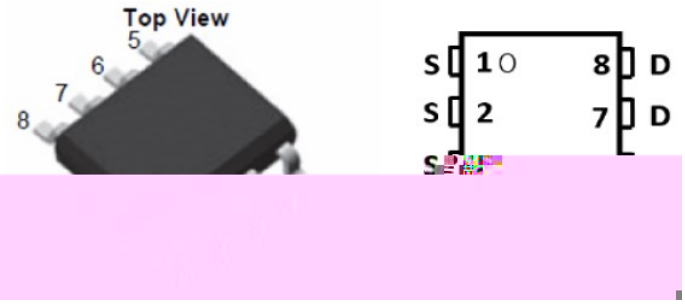
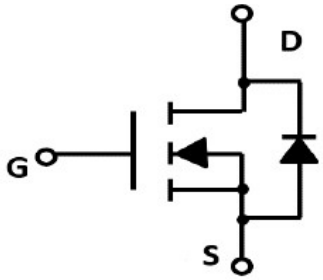
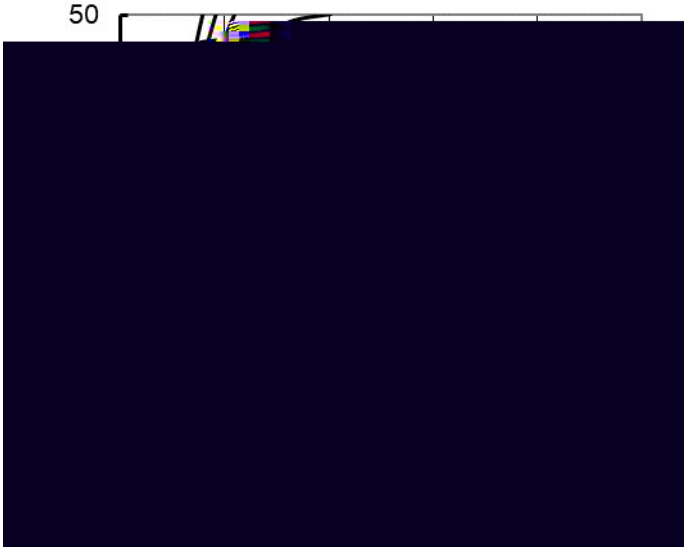
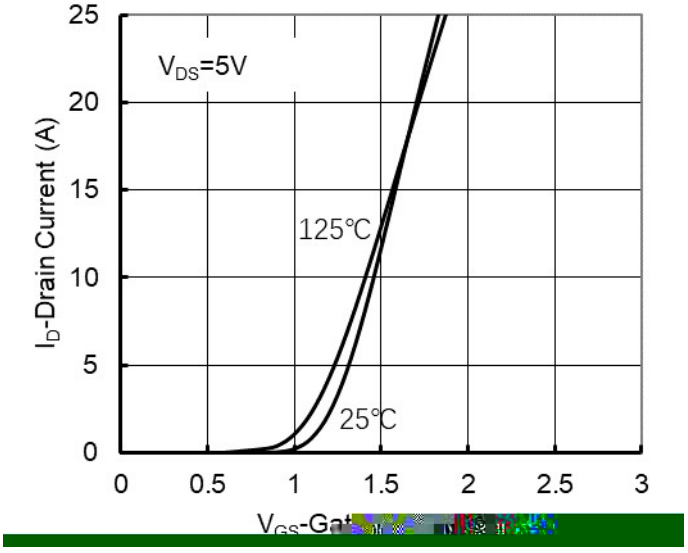
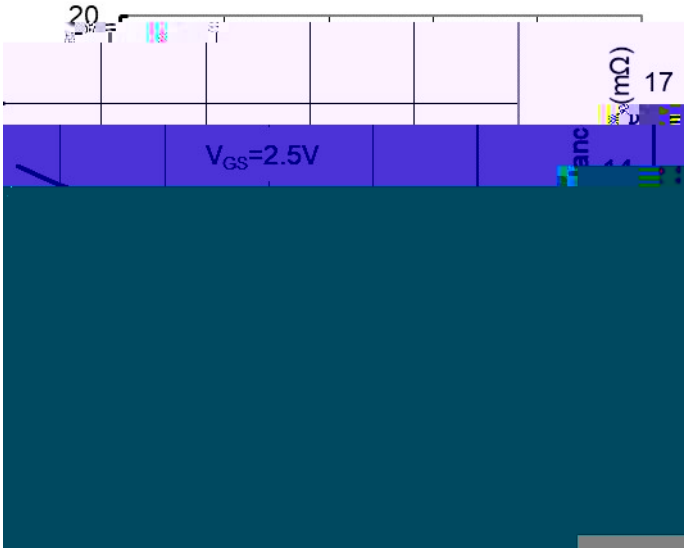
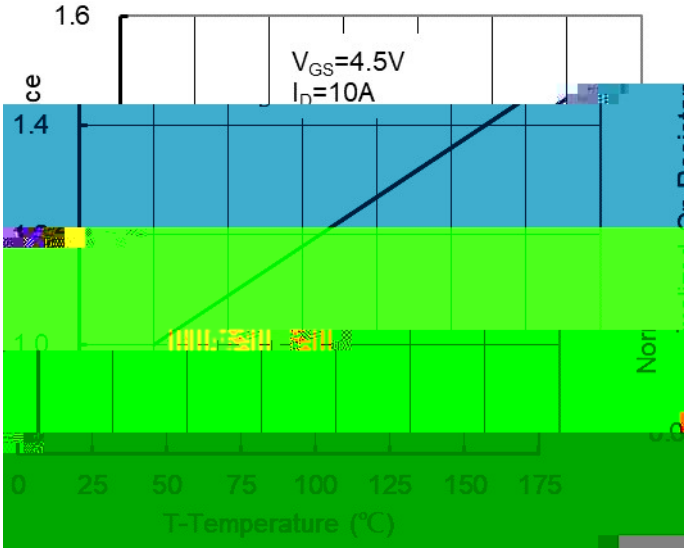

Top View
5
6
7
8
S
1
S
2
S
8
D
7
D

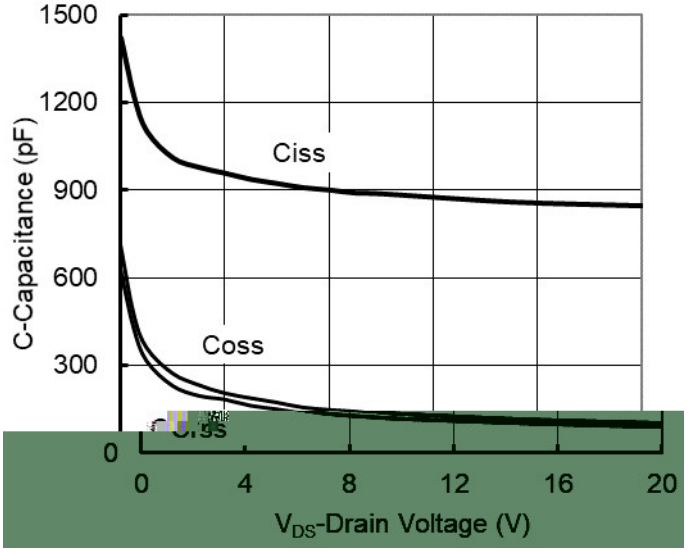

D
G
S

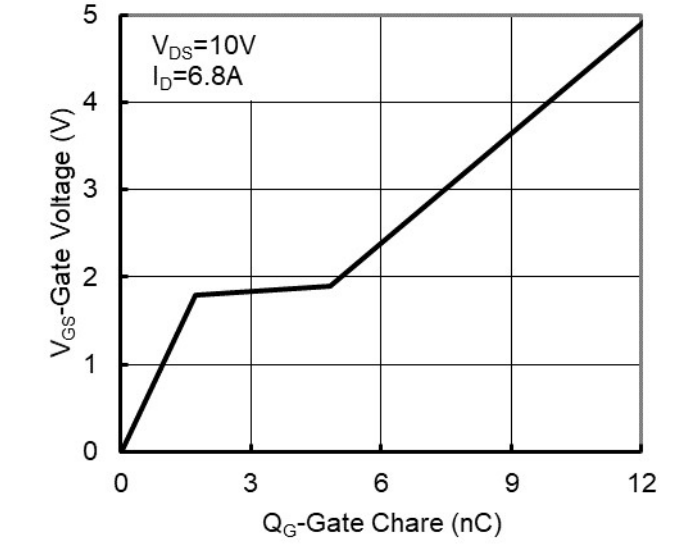

50

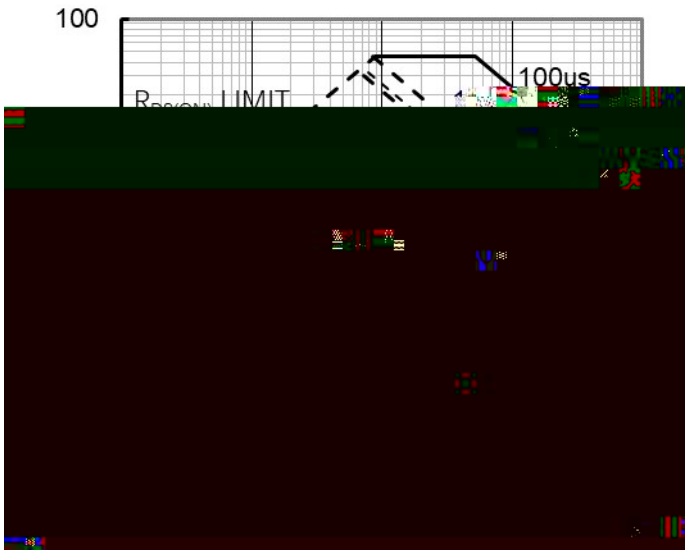

25
20
15
10
5
0
V_{DS}=5V
125℃
25℃
I_D-Drain Current (A)
0
0.5
1
1.5
2
2.5
3
V_{GS}-Gat

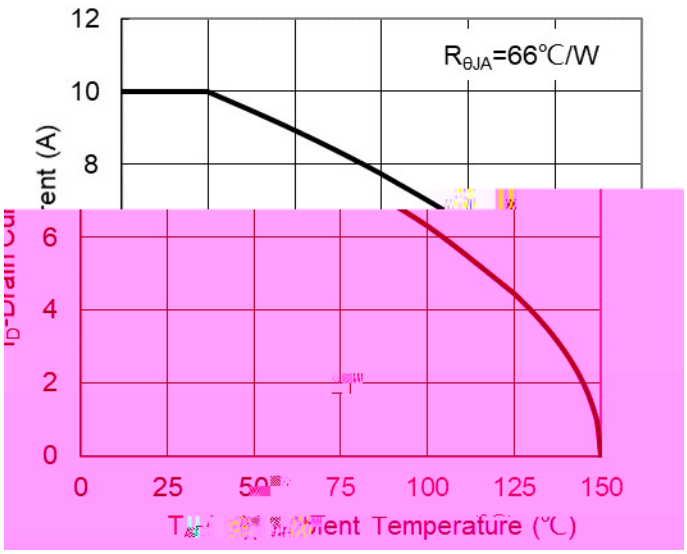

20
17
V_{GS}=2.5V

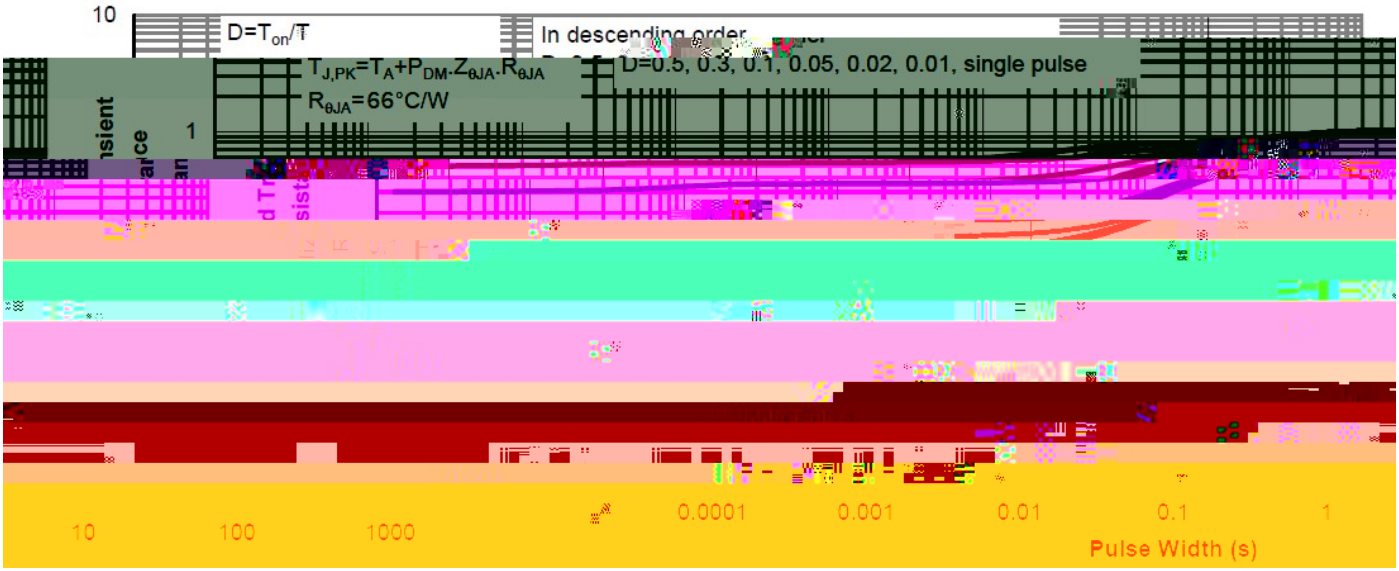

1.6
1.4
V_{GS}=4.5V
I_D=10A
0
25
50
75
100
125
150
175
T-Temperature (℃)

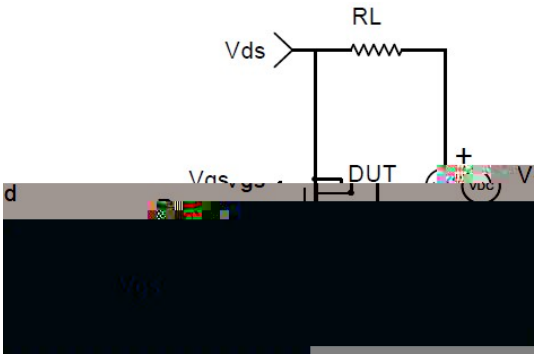

1500
1200
900
600
300
0
Ciss
Coss
C-Capacitance (pF)
0
4
8
12
16
20
V_{DS}-Drain Voltage (V)

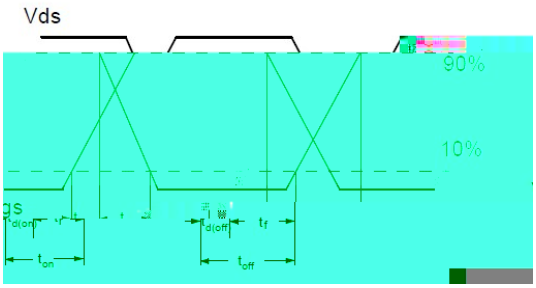

5
4
3
2
1
0
V_{DS}=10V
I_D=6.8A
V_{GS}-Gate Voltage (V)
0
3
6
9
12
Q_G-Gate Chare (nC)

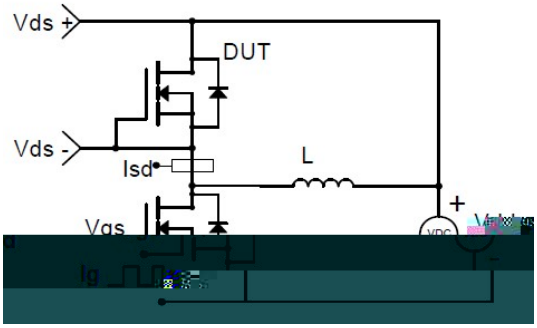

100
100us

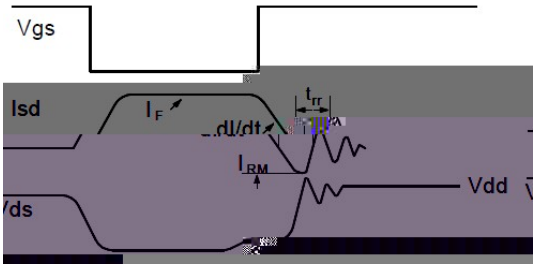

12
10
8
6
4
2
0
0
25
50
75
100
125
150
$R_{\theta JA}$=66°C/W

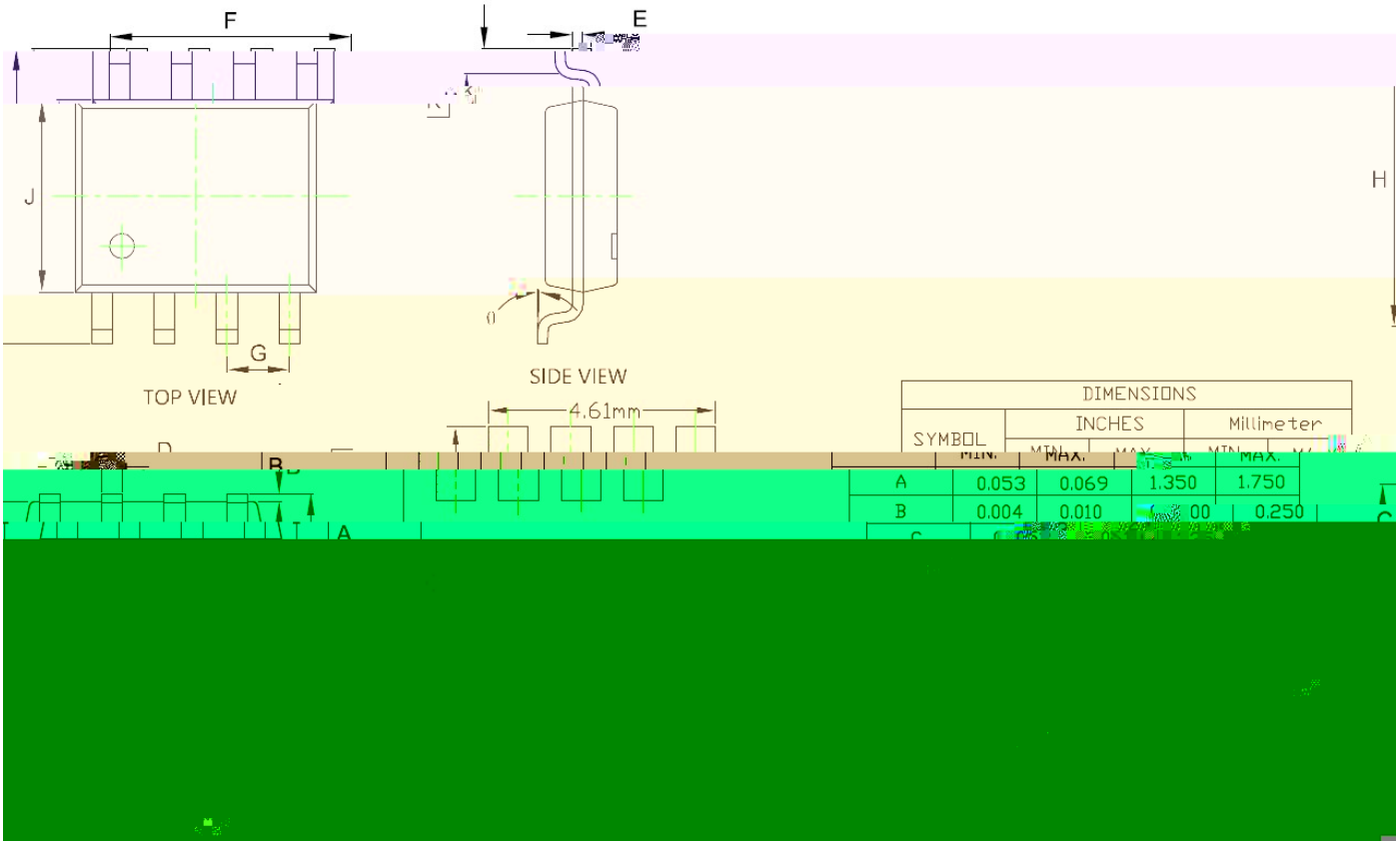

10
1
D=T_{on}/T
In descending order
$T_{J,PK}$=T_A+P_{DM}.$Z_{\theta JA}$.$R_{\theta JA}$
$R_{\theta JA}$=66°C/W
D=0.5, 0.3, 0.1, 0.05, 0.02, 0.01, single pulse
10
100
1000
0.0001
0.001
0.01
0.1
1
Pulse Width (s)


RL
Vds
DUT
+
Vdc


Vds
90%
10%
$t_{d(on)}$
t_r
t_{on}
$t_{d(off)}$
t_f
t_{off}


Vds +
DUT
Vds -
Isd
L
Vgs
+
Vdc
-
Ig


Vgs
Isd
I_F
t_{rr}
-dI/dt
I_{RM}
Vds
Vdd


F
E
J
H
G
TOP VIEW
SIDE VIEW
4.61mm
DIMENSIONS
SYMBOL
INCHES
Millimeter
MIN.
MAX.
MIN.
MAX.
A
0.053
0.069
1.350
1.750
B
0.004
0.010
0.00
0.250