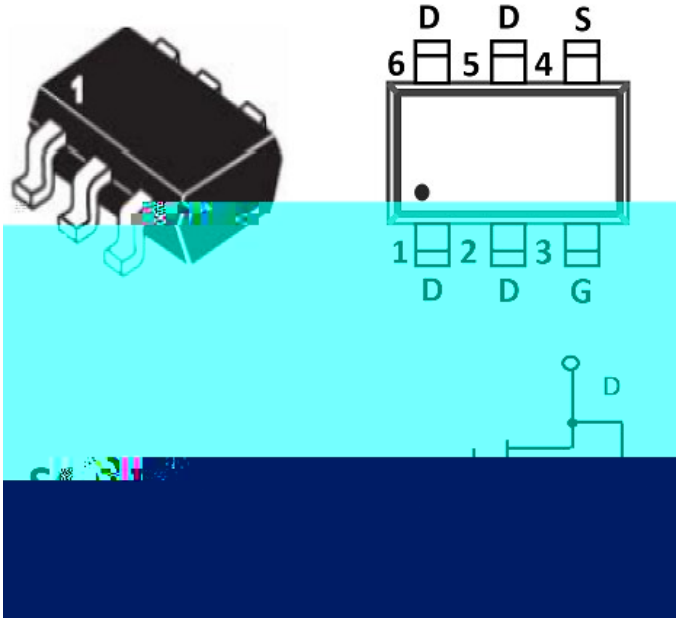
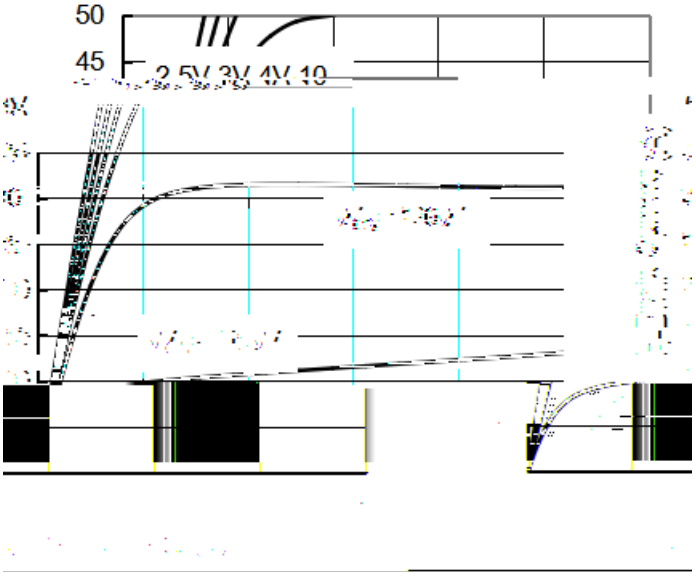
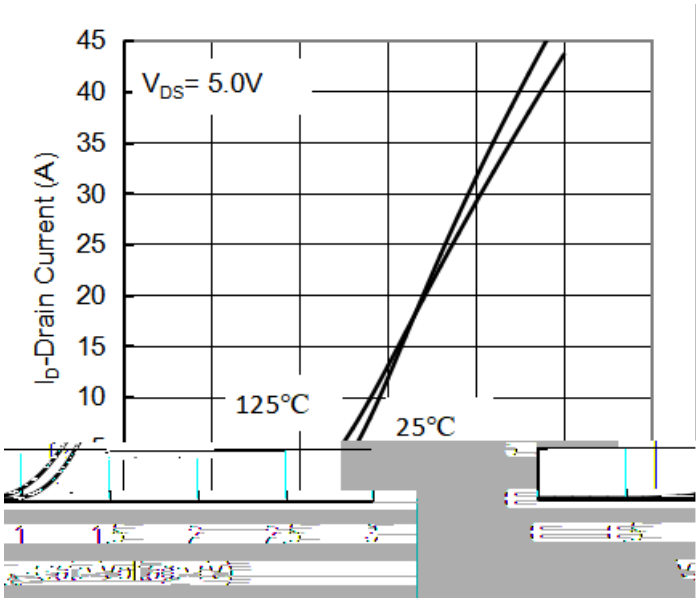
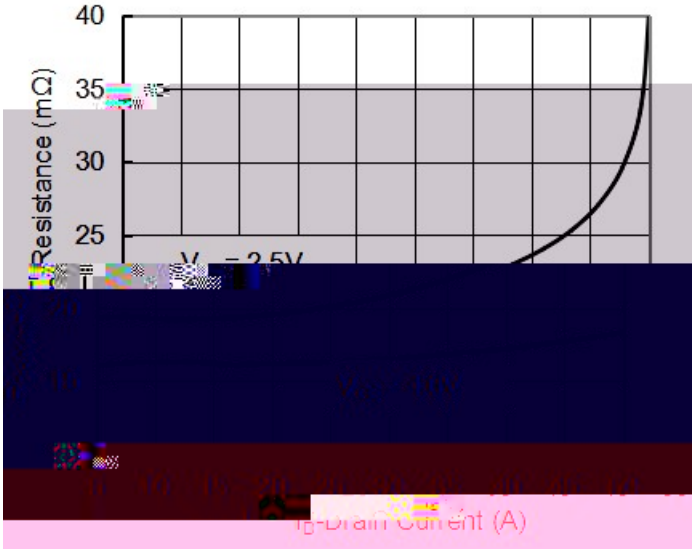
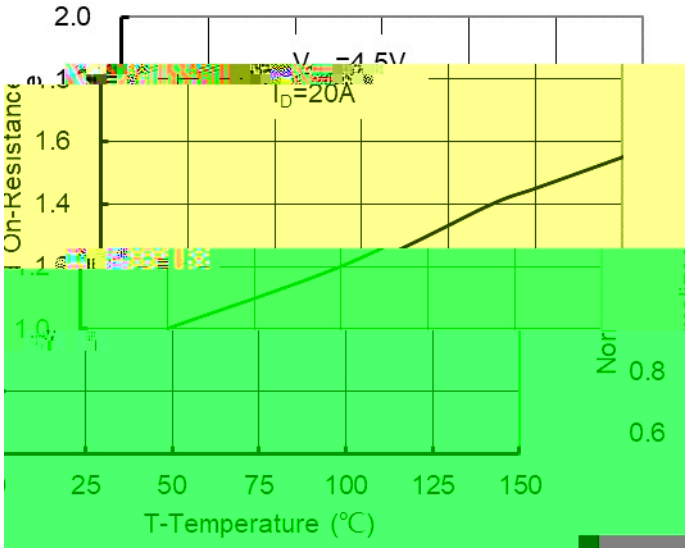
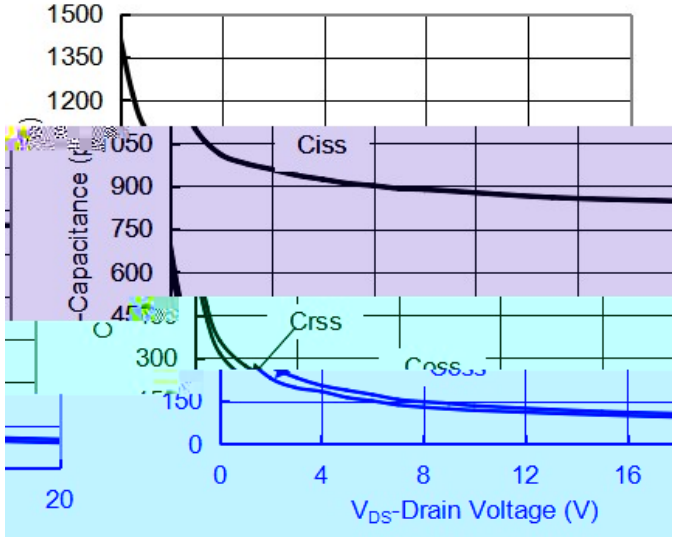

D
D
S
6
5
4
1
2
3
D
D
G
D

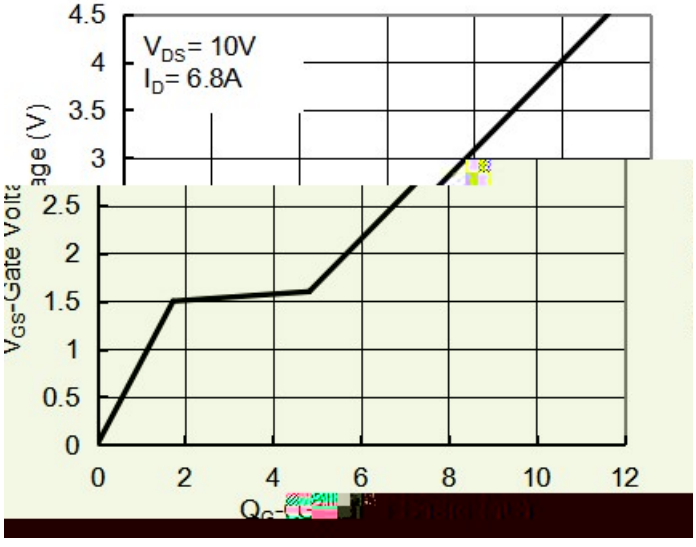

50
45
2.5V 3V 4V 10

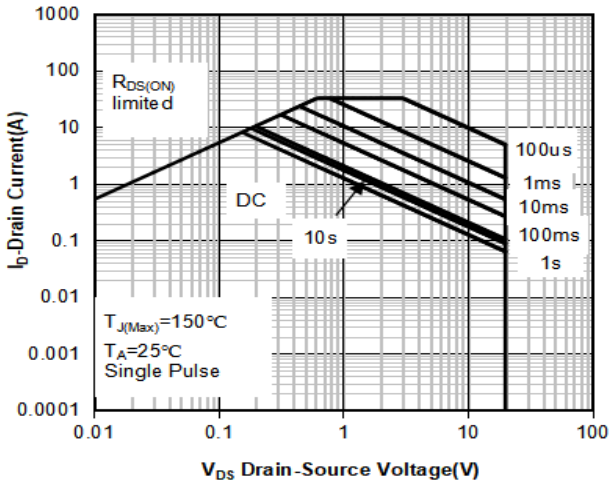

45
40
35
30
25
20
15
10
V_{DS}= 5.0V
I_D-Drain Current (A)
125°C
25°C

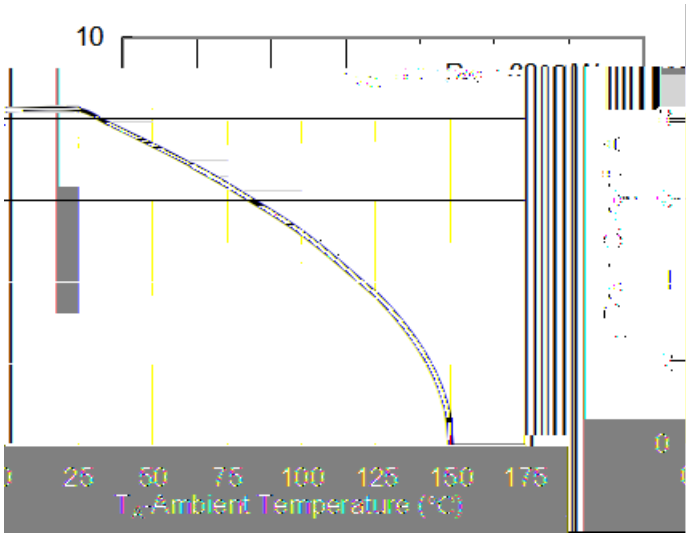

40
35
30
25
Resistance (mΩ)
I_D-Drain Current (A)

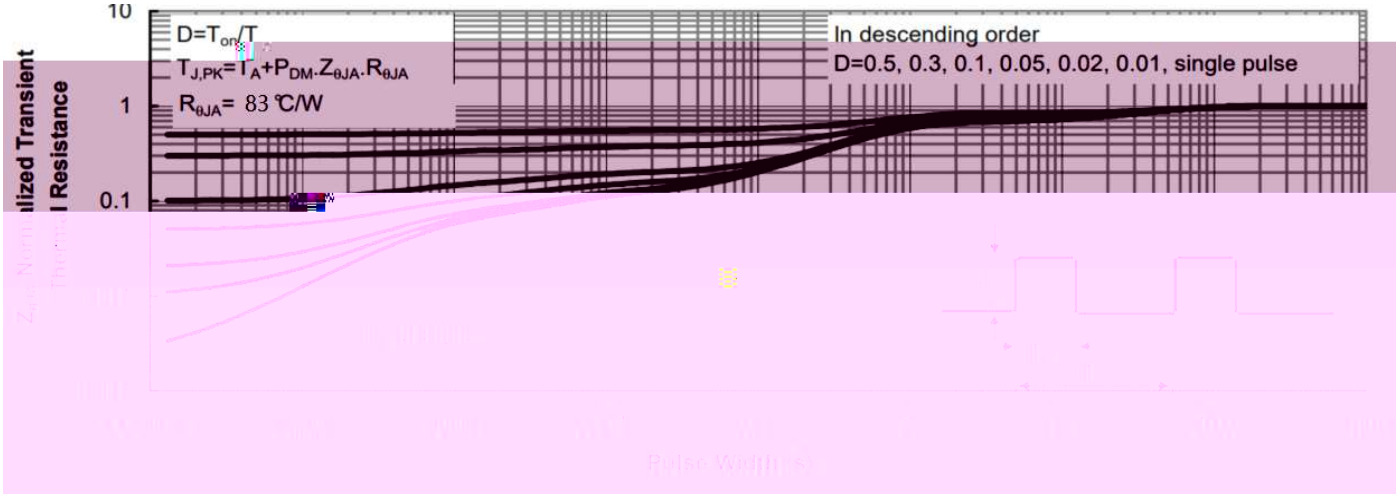

2.0
1.6
1.4
I_D=20A
On-Resistanc
Nor
0.8
0.6
25
50
75
100
125
150
T-Temperature (℃)

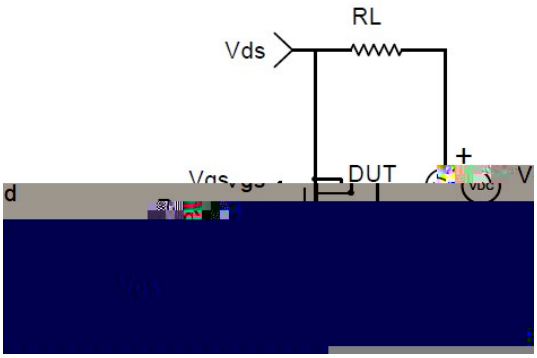

1500
1350
1200
1050
900
750
600
Ciss
Crss
300
150
0
0
4
8
12
16
20
V_{DS}-Drain Voltage (V)

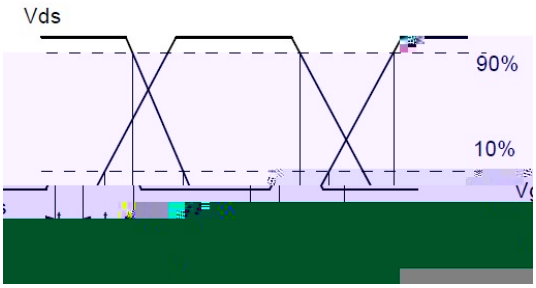

4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
V_{DS}= 10V
I_D= 6.8A
V_{GS}-Gate Volta
0
2
4
6
8
10
12

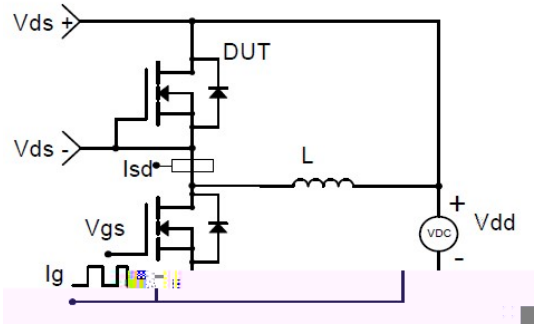

1000
100
10
1
0.1
0.01
0.001
0.0001
0.01
0.1
1
10
100
I_D-Drain Current(A)
V_{DS} Drain-Source Voltage(V)
$R_{DS(ON)}$ limited
DC
10s
1s
100ms
10ms
1ms
100us
$T_{J(Max)}$=150℃
T_A=25℃
Single Pulse

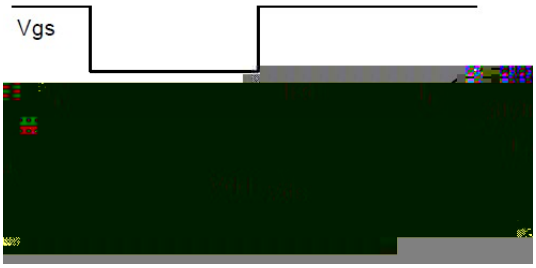

10
25
50
75
100
125
150
175
T_A-Ambient Temperature (℃)

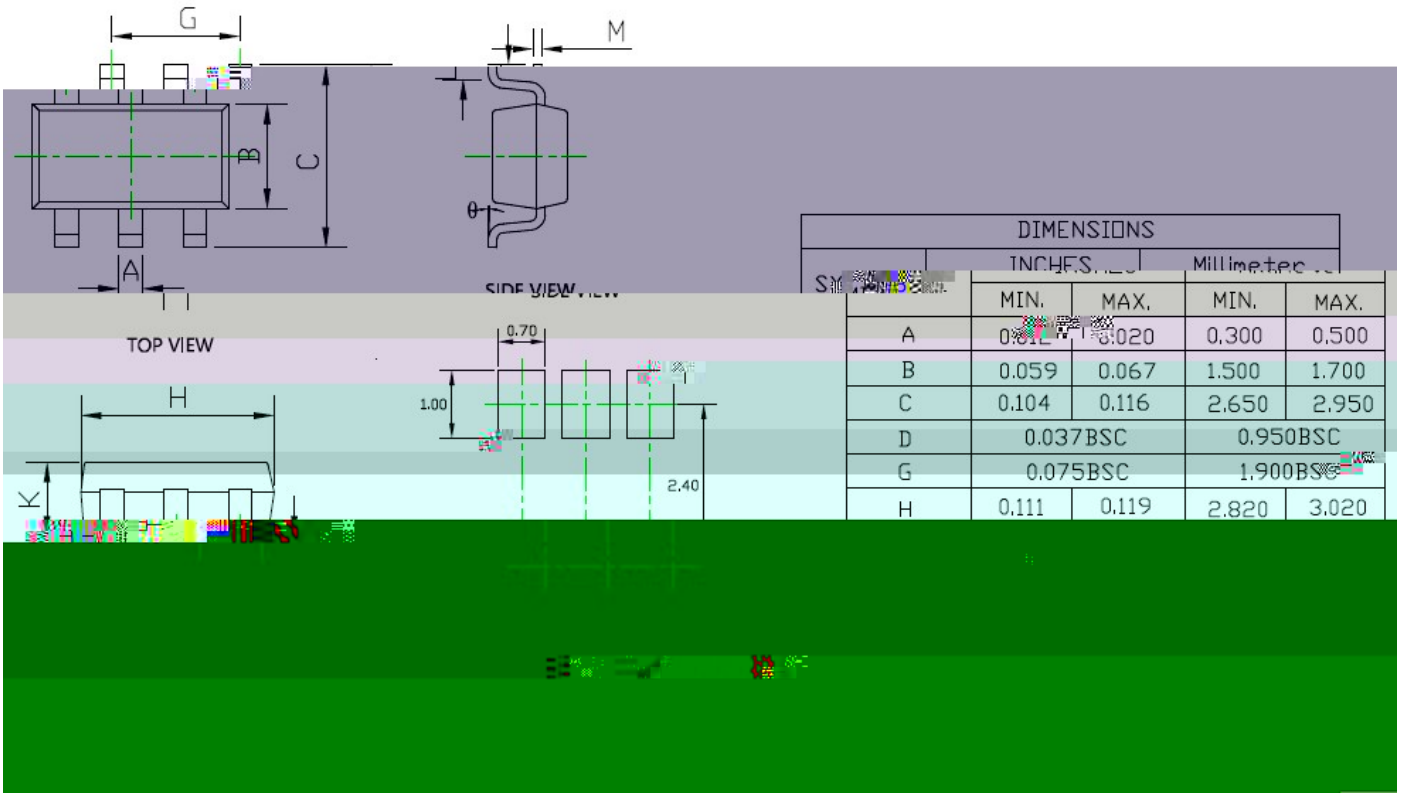

10
1
0.1
D=T_{on}/T
$T_{J,PK}$=T_A+P_{DM}.$Z_{\theta JA}$.$R_{\theta JA}$
$R_{\theta JA}$= 83 ℃/W
In descending order
D=0.5, 0.3, 0.1, 0.05, 0.02, 0.01, single pulse


RL
Vds
DUT
+
V


Vds
90%
10%


Vds +
DUT
Vds -
Isd
L
Vgs
+
Vdd
VDC
-
Ig


Vgs



DIMENSIONS				
	INCHES		Millimeters	
	MIN.	MAX.	MIN.	MAX.
A	[illegible]	0.020	0.300	0.500
B	0.059	0.067	1.500	1.700
C	0.104	0.116	2.650	2.950
D	0.037BSC		0.950BSC	
G	0.075BSC		1.900BSC	
H	0.111	0.119	2.820	3.020