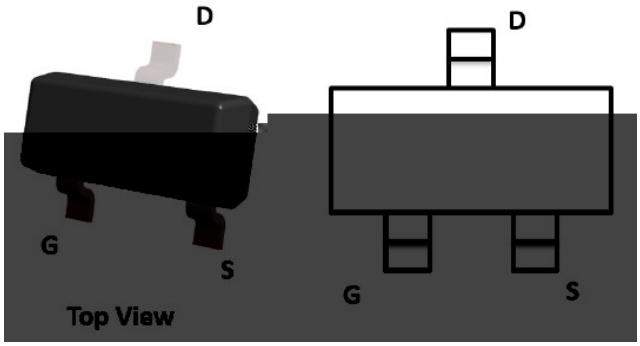
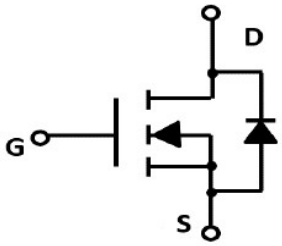
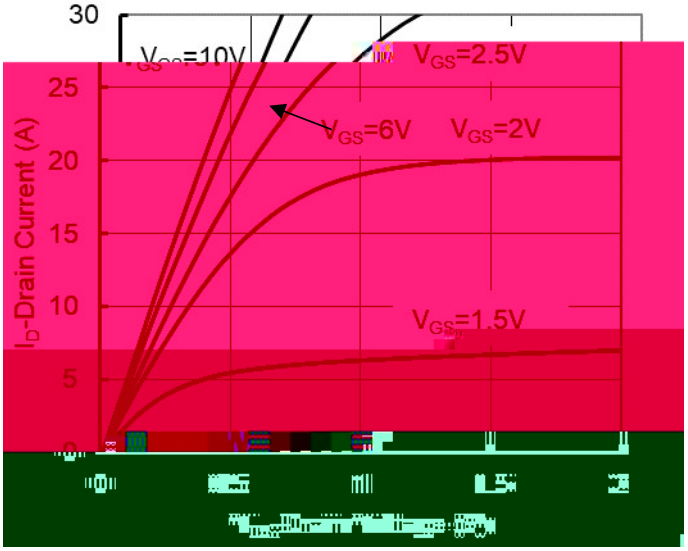
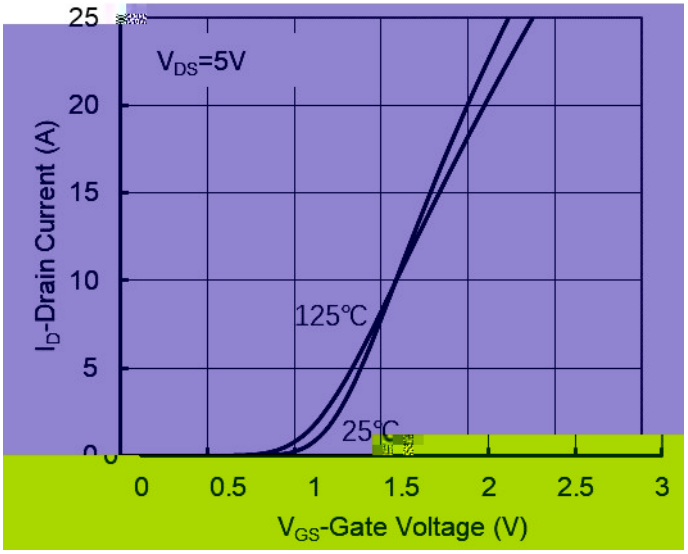
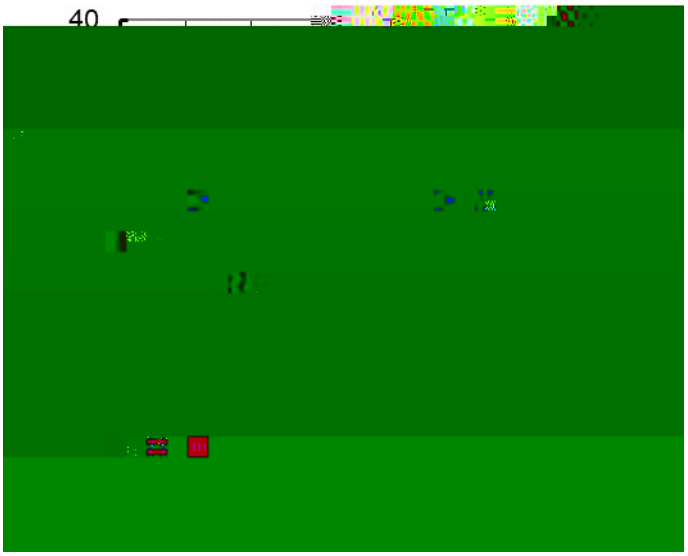
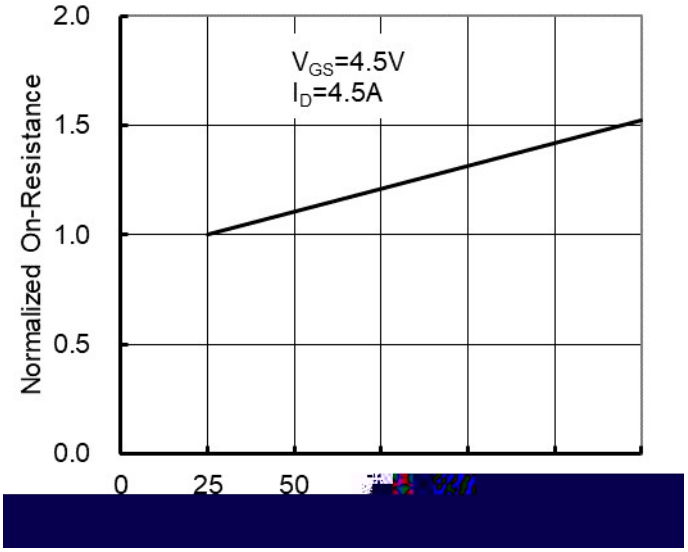

D
D
G
S
G
S
Top View

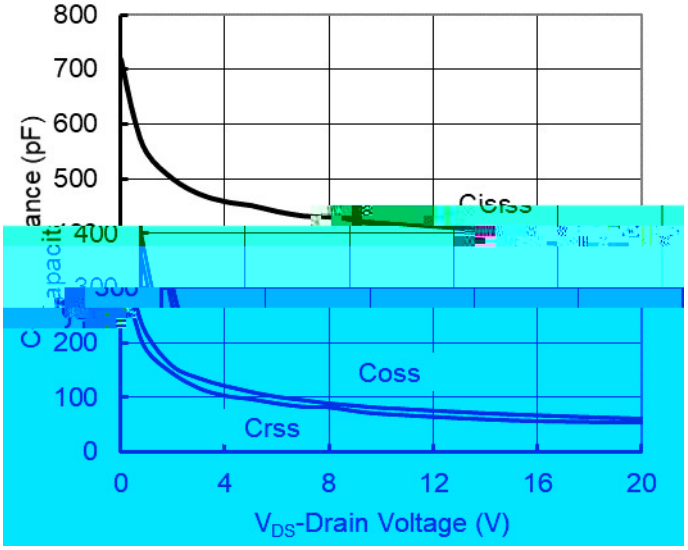

D
G
S

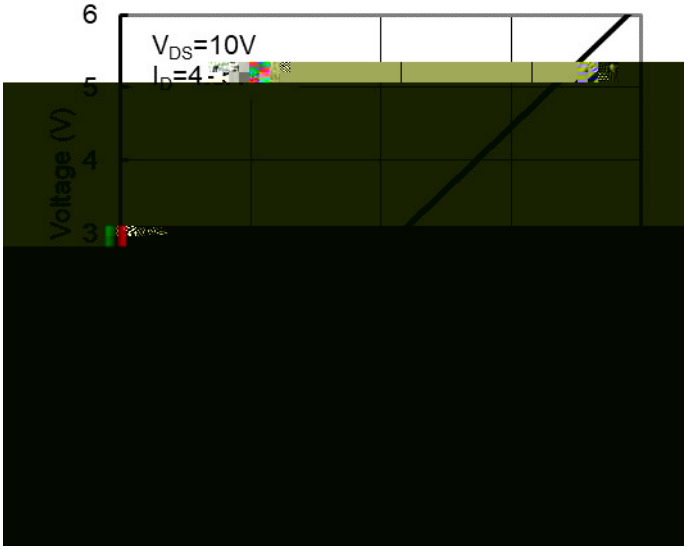

30
25
20
15
10
5
I_D-Drain Current (A)
V_{GS}=10V
V_{GS}=2.5V
V_{GS}=6V
V_{GS}=2V
V_{GS}=1.5V

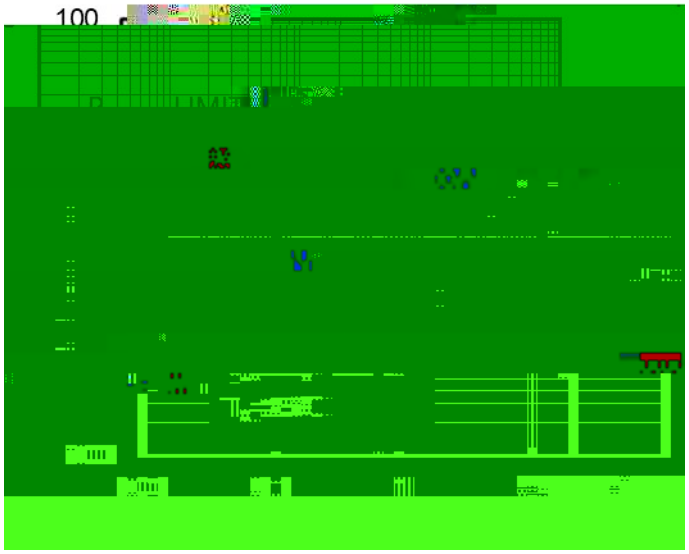

25
20
15
10
5
0
I_D-Drain Current (A)
V_{DS}=5V
125℃
25℃
0
0.5
1
1.5
2
2.5
3
V_{GS}-Gate Voltage (V)

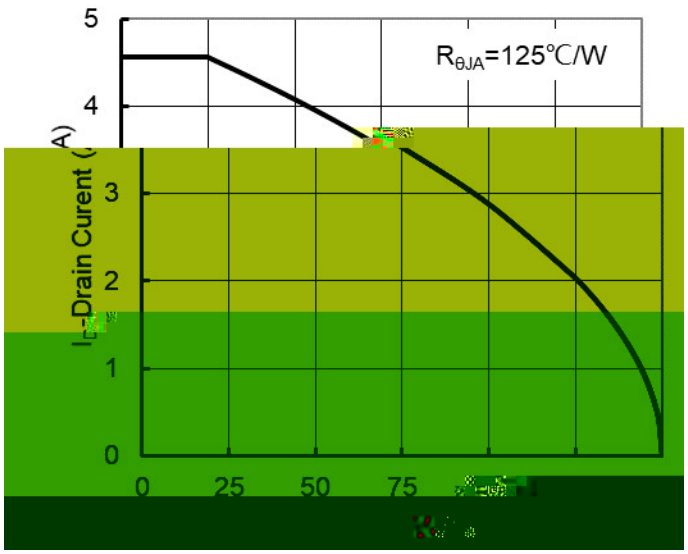

40

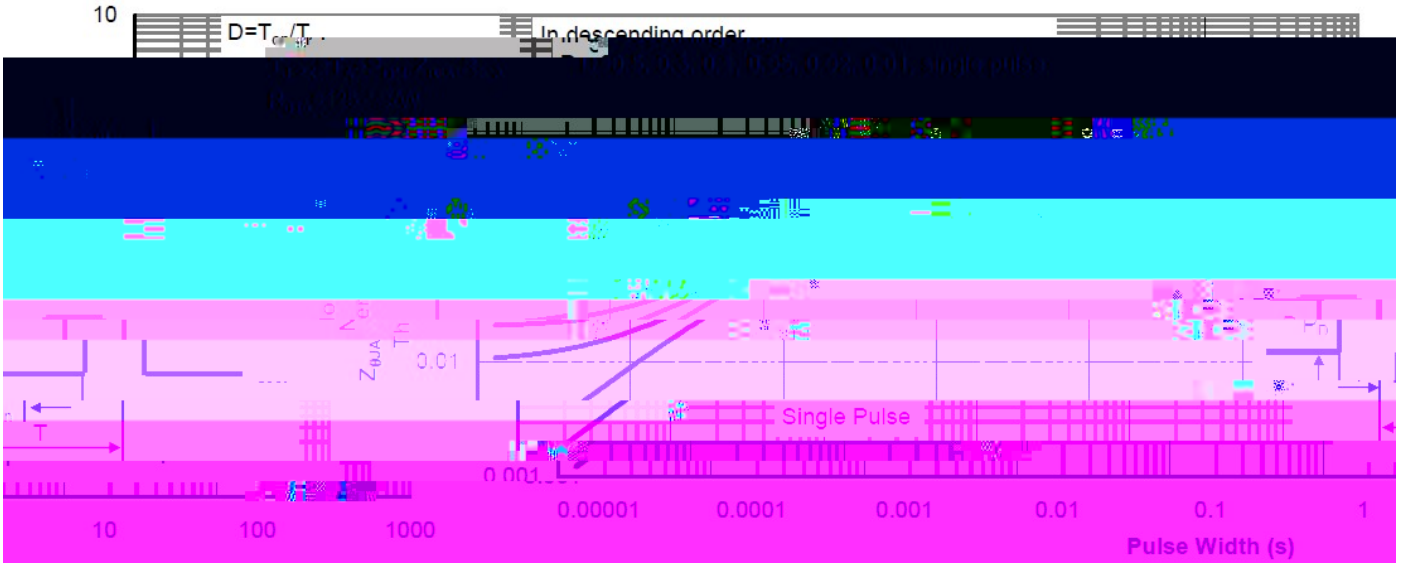

2.0
1.5
1.0
0.5
0.0
Normalized On-Resistance
V_{GS}=4.5V
I_D=4.5A
0
25
50

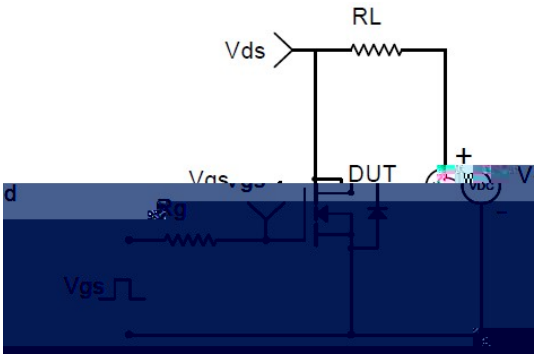

800
700
600
500
400
200
100
0
Ciss
Coss
Crss
0
4
8
12
16
20
V_{DS}-Drain Voltage (V)

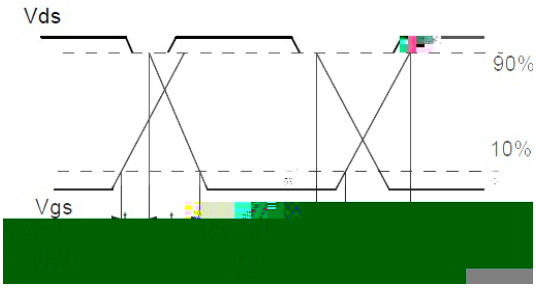

6
5
4
3
V_{DS}=10V
Voltage (V)

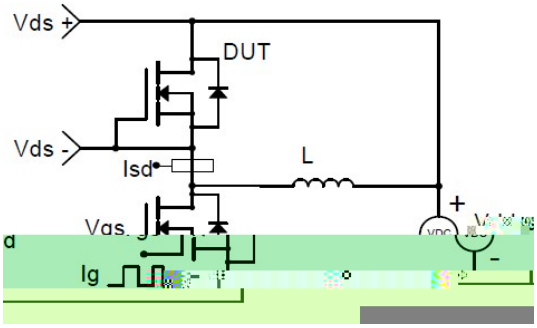

100

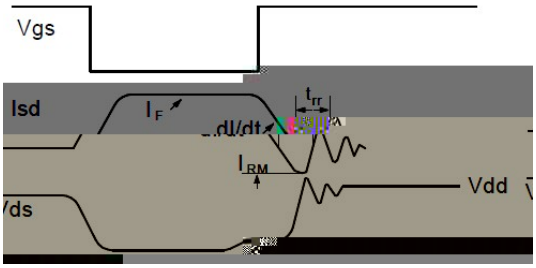

5
4
3
2
1
0
0
25
50
75
$R_{\theta JA}$=125℃/W
I$_D$-Drain Curent (A)

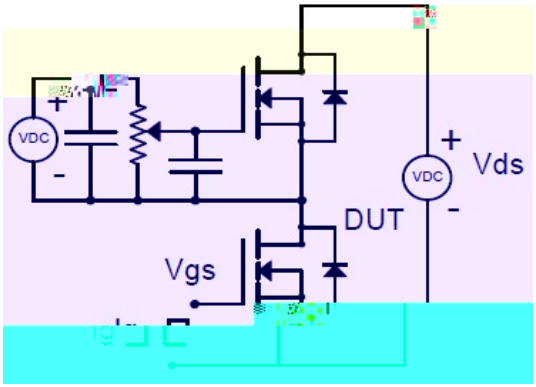

10
D=T$_{on}$/T
In descending order
Single Pulse
0.01
0.001
10
100
1000
0.00001
0.0001
0.001
0.01
0.1
1
Pulse Width (s)

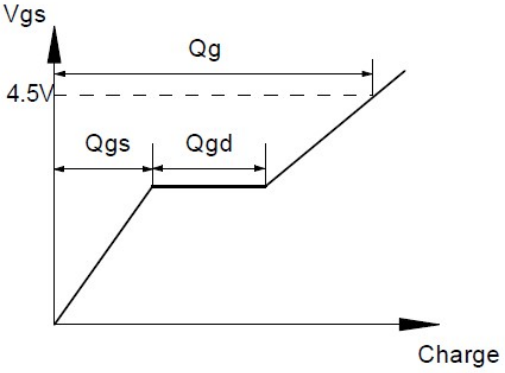

RL
Vds
DUT
Rg
Vgs

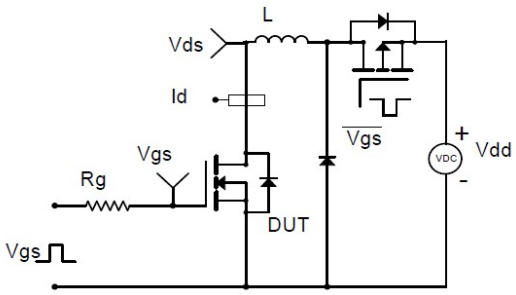

Vds
90%
10%
Vgs

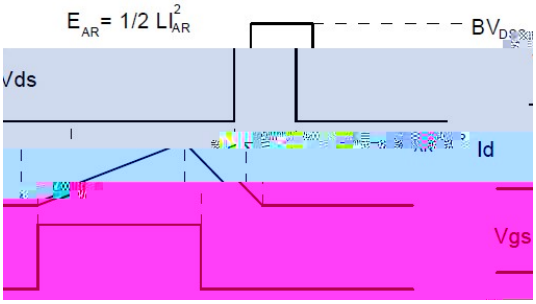

Vds +
DUT
Vds -
Isd
L
Vgs
Ig

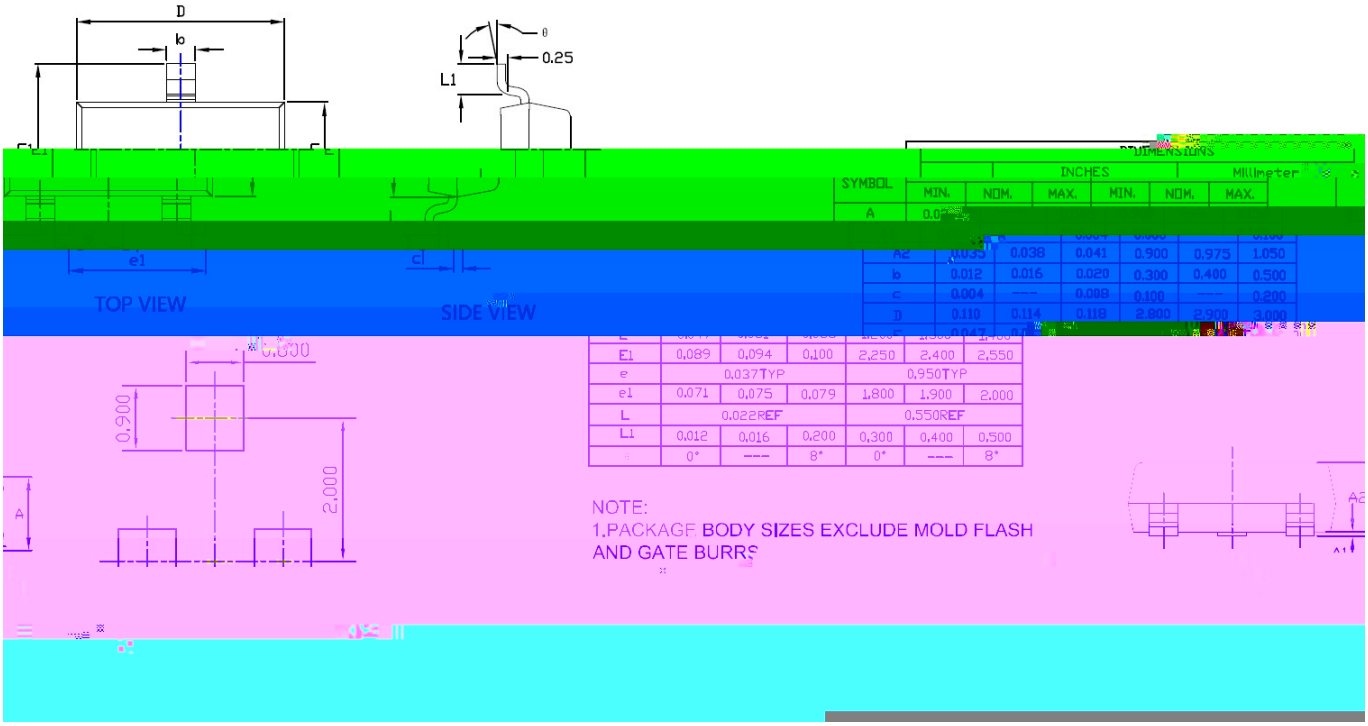

Vgs
Isd
I_F
t_{rr}
dI/dt
I_{RM}
Vdd
Vds


VDC
Vds
DUT
Vgs


Vgs
Qg
4.5V
Qgs
Qgd
Charge


L
Vds
Id
Vgs
Rg
DUT
Vgs
Vdd
Vgs


E_{AR}= 1/2 LI_{AR}^2
BV_{DSS}
Vds
Id
Vgs


D
b
θ
0.25
L1
e1
c1
TOP VIEW
SIDE VIEW
0.900
2.000
A
A2
DIMENSIONS
SYMBOL
INCHES
Millimeter
MIN.
NOM.
MAX.
A
A2
0.035
0.038
0.041
0.900
0.975
1.050
b
0.012
0.016
0.020
0.300
0.400
0.500
c
0.004

0.008
0.100

0.200
D
0.110
0.114
0.118
2.800
2.900
3.000
E1
0.089
0.094
0.100
2.250
2.400
2.550
e
0.037TYP
0.950TYP
e1
0.071
0.075
0.079
1.800
1.900
2.000
L
0.022REF
0.550REF
L1
0.012
0.016
0.200
0.300
0.400
0.500
θ
0°

8°
0°

8°
NOTE:
1.PACKAGE BODY SIZES EXCLUDE MOLD FLASH
AND GATE BURRS