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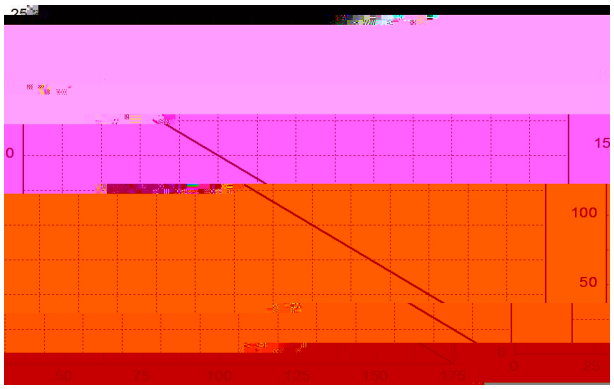
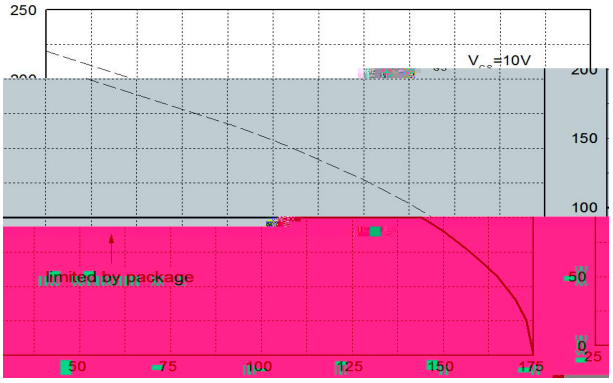
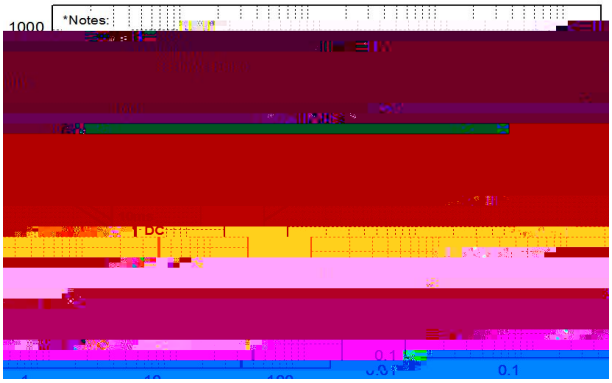
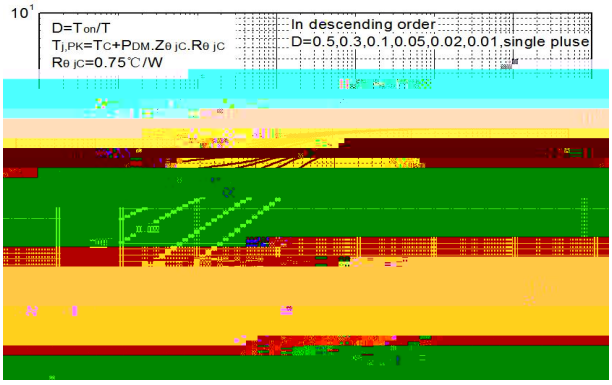
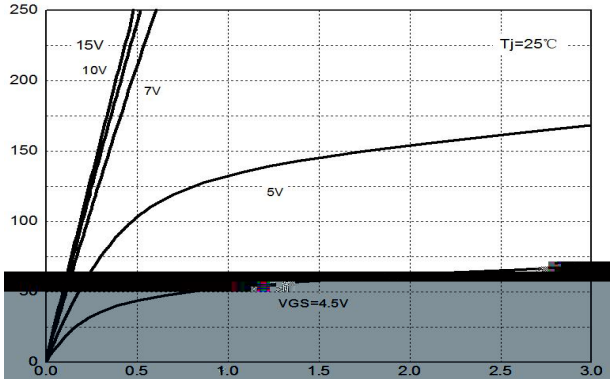
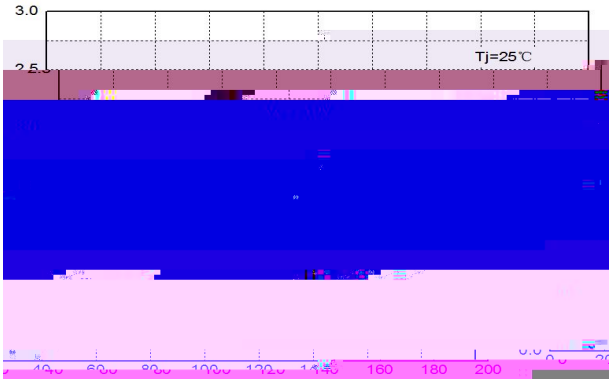


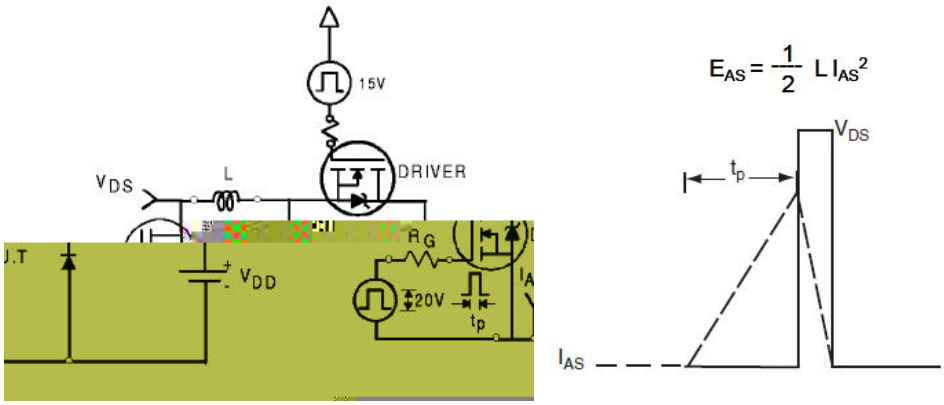

250
150
100
50
0
limited by package
50
75
100
125
150
175


1000
*Notes:
DC
0.1

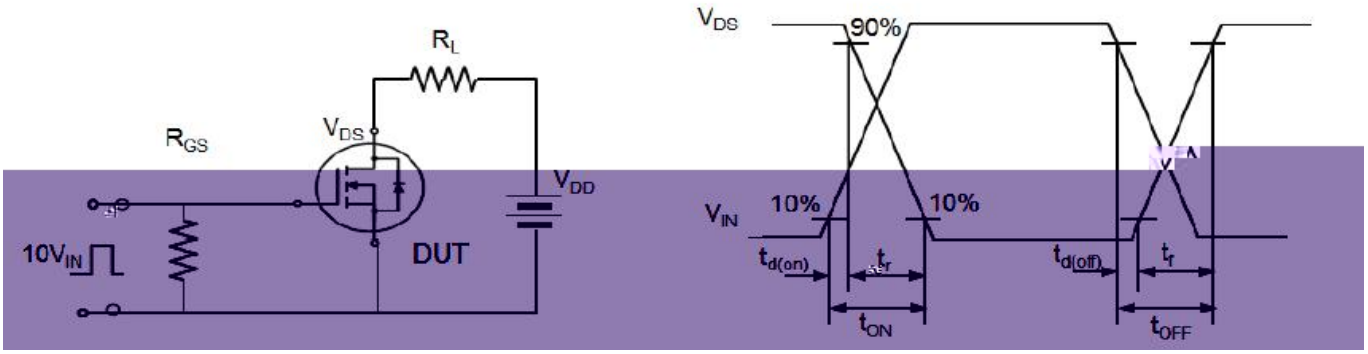

D=Ton/T
Tj,PK=TC+PDM.Zθ jC.Rθ jC
Rθ jC=0.75℃/W
In descending order
D=0.5,0.3,0.1,0.05,0.02,0.01,single pluse

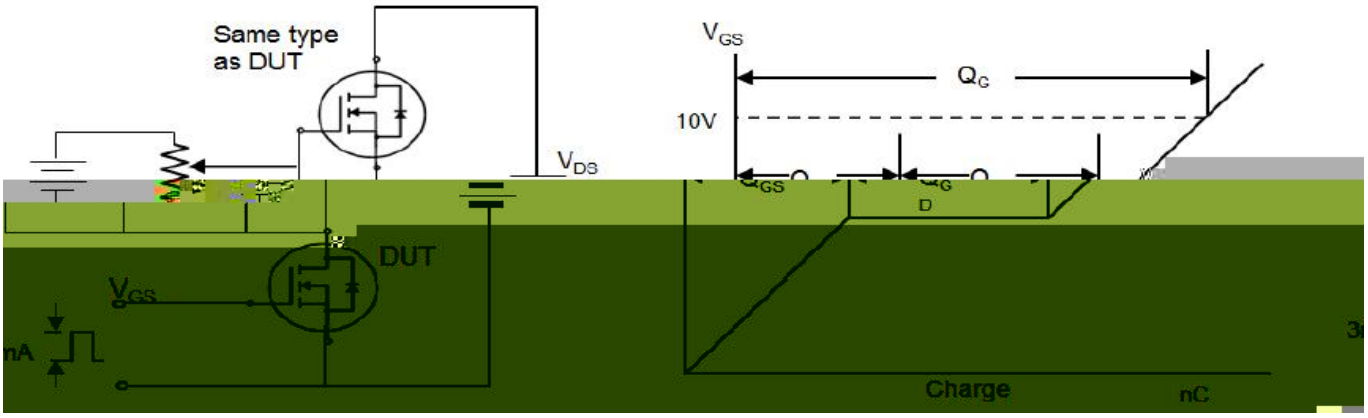

250
200
150
100
0
15V
10V
7V
5V
Tj=25℃
VGS=4.5V
0.0
0.5
1.0
1.5
2.0
2.5
3.0

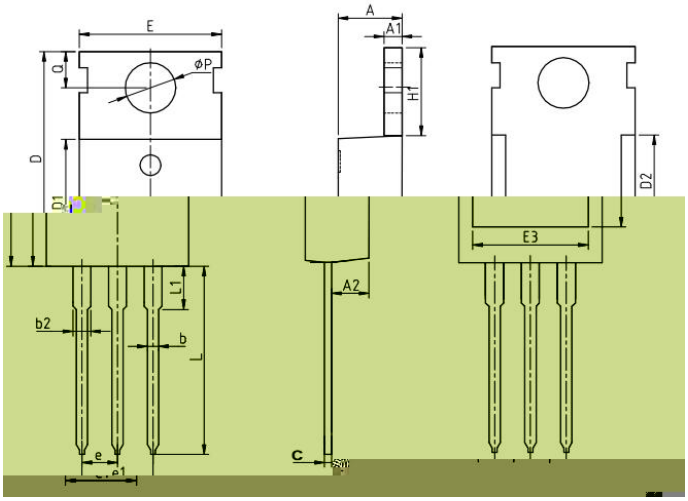

3.0
Tj=25℃
160
180
200

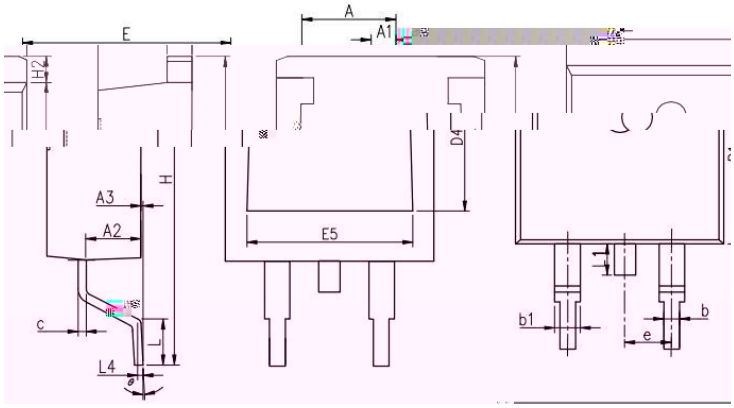


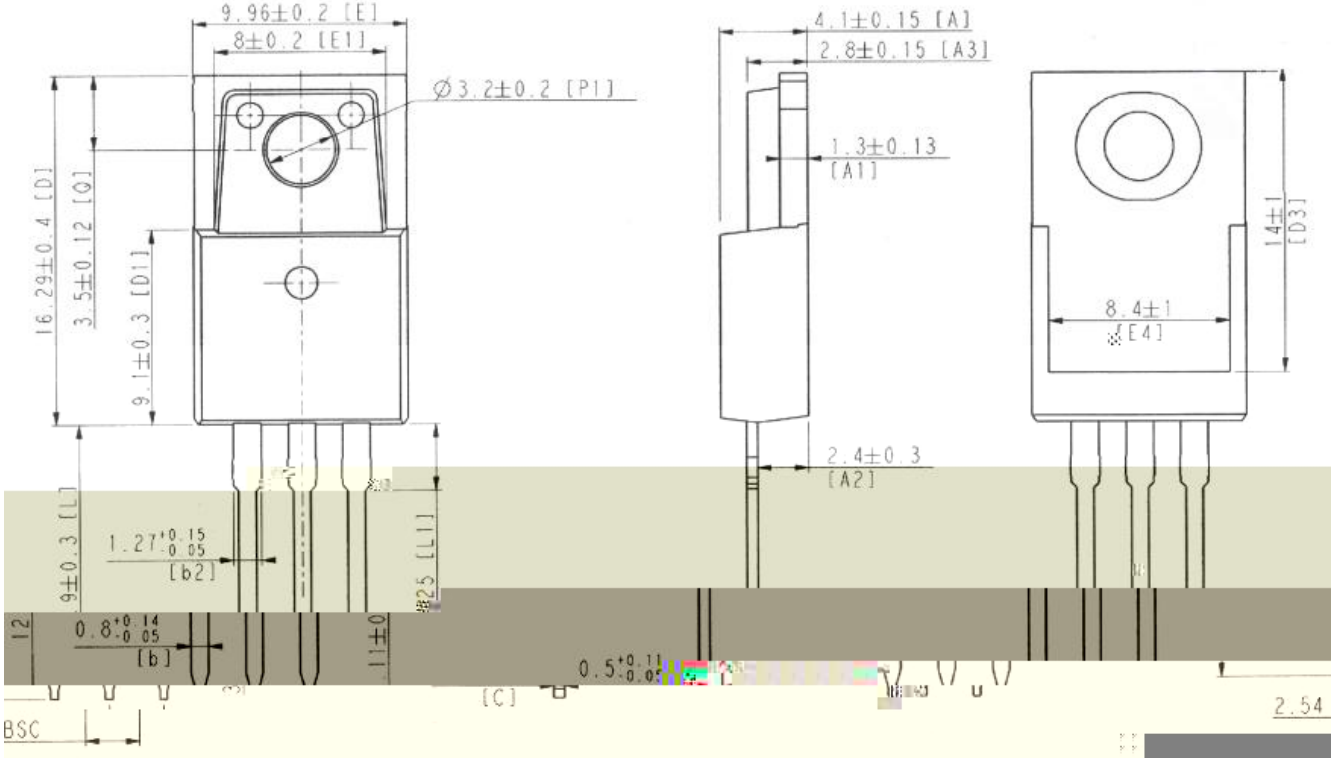
$$E_{AS} = \frac{1}{2} L I_{AS}^2$$

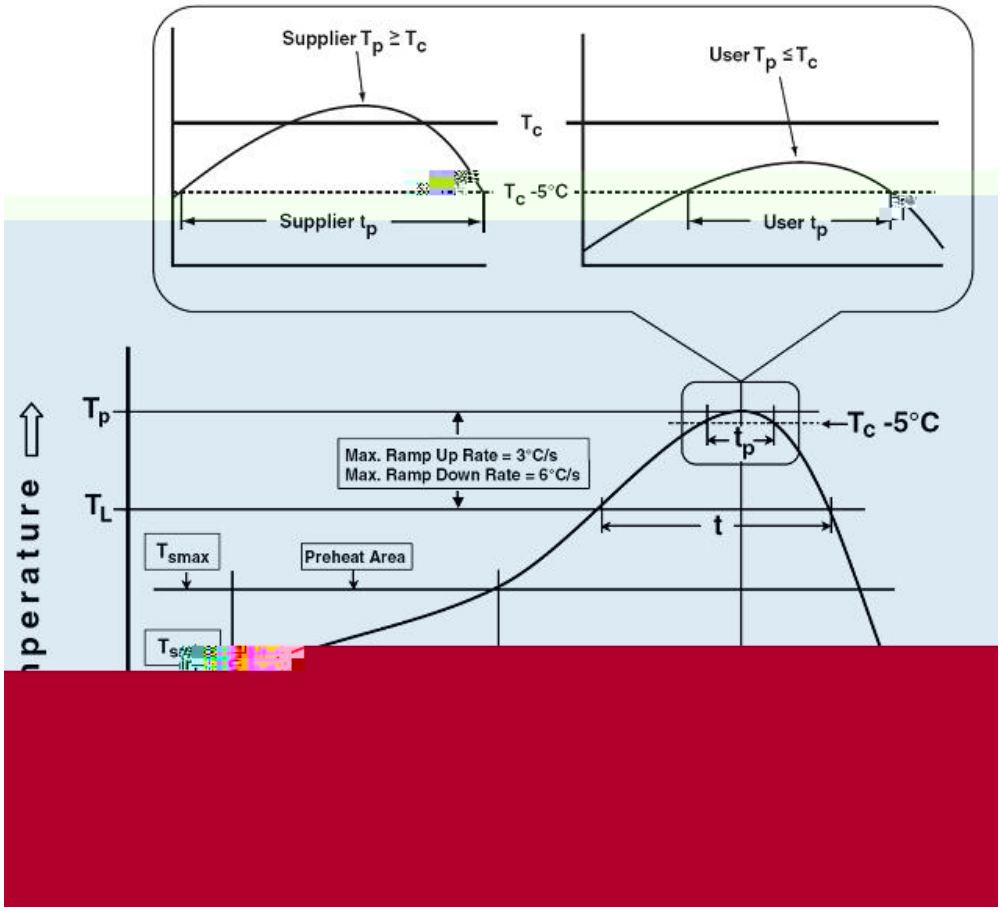





E
A
A1
Q
ØP
H1
D
D1
D2
E3
A2
L1
b2
b
L
e
e1
C


E
A
A1
H2
H
A3
A2
D4
E5
c
L
L4
b1
b
e


9.96±0.2 [E]
8±0.2 [E1]
Ø3.2±0.2 [P1]
16.29±0.4 [D]
3.5±0.12 [Q]
9.1±0.3 [D1]
9±0.3 [L]
1.27+0.15 -0.05
[b2]
0.8+0.14 -0.05
[b]
[C]
BSC
4.1±0.15 [A]
2.8±0.15 [A3]
1.3±0.13
[A1]
2.4±0.3
[A2]
14±1
[D3]
8.4±1
[E4]
2.54


Supplier $T_p \geq T_c$
T_c
T_c -5°C
Supplier t_p
User $T_p \leq T_c$
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
perature