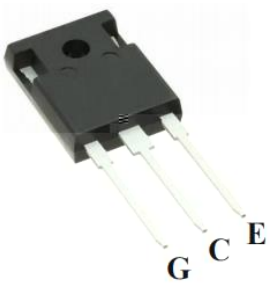
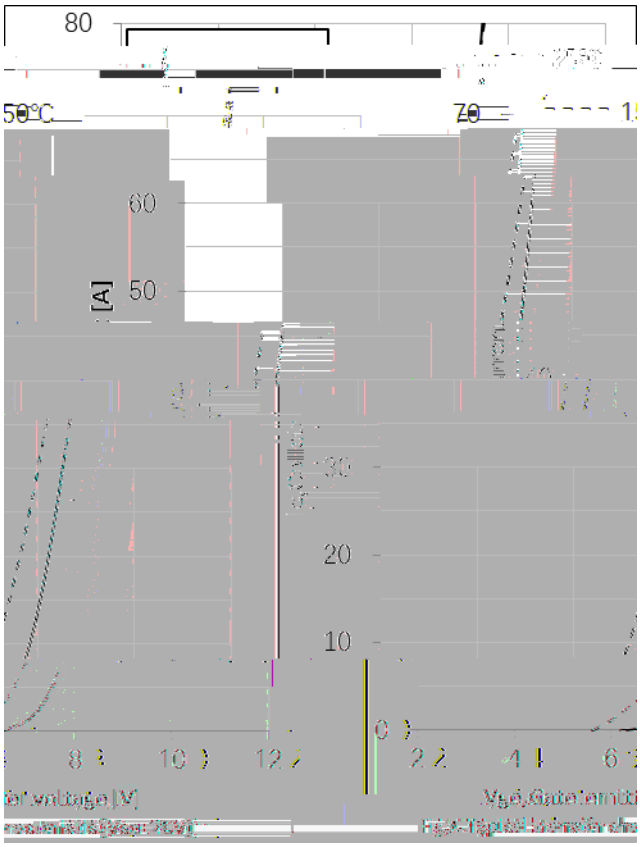
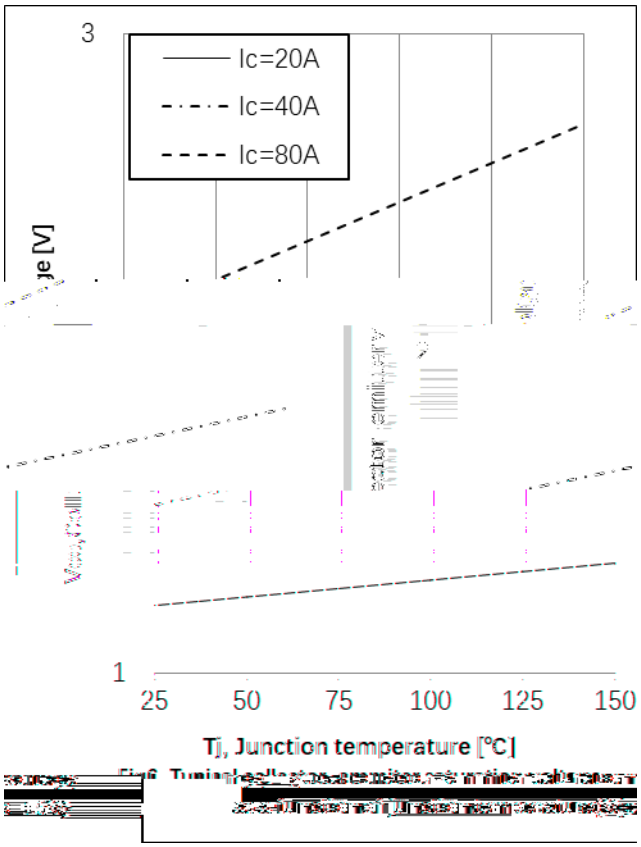
DGW40N65ATL0

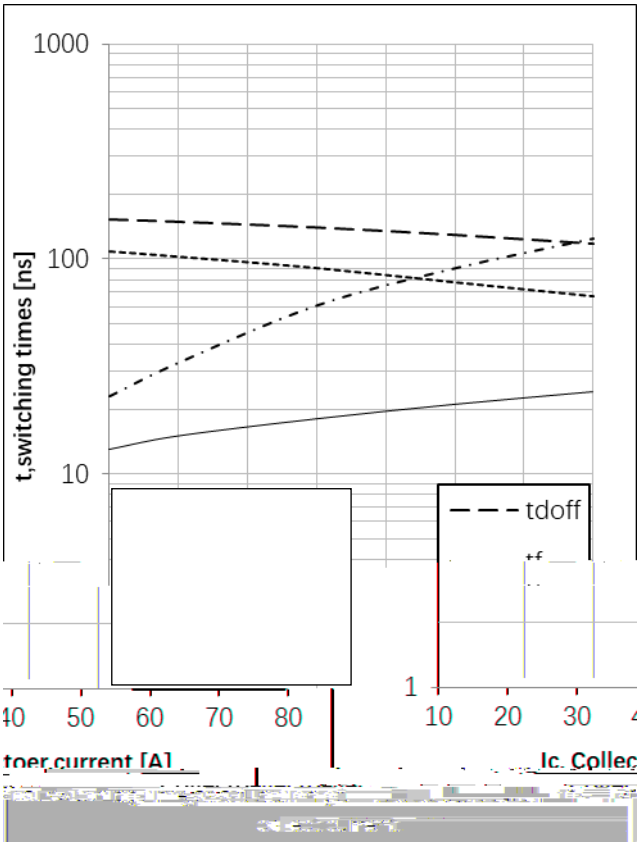


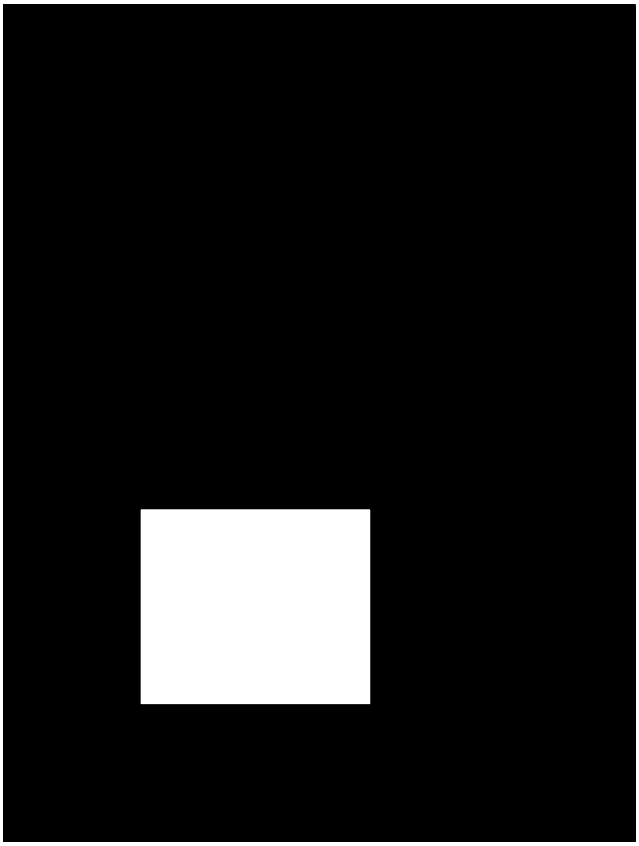
Switching Characteristic, Inductive Load

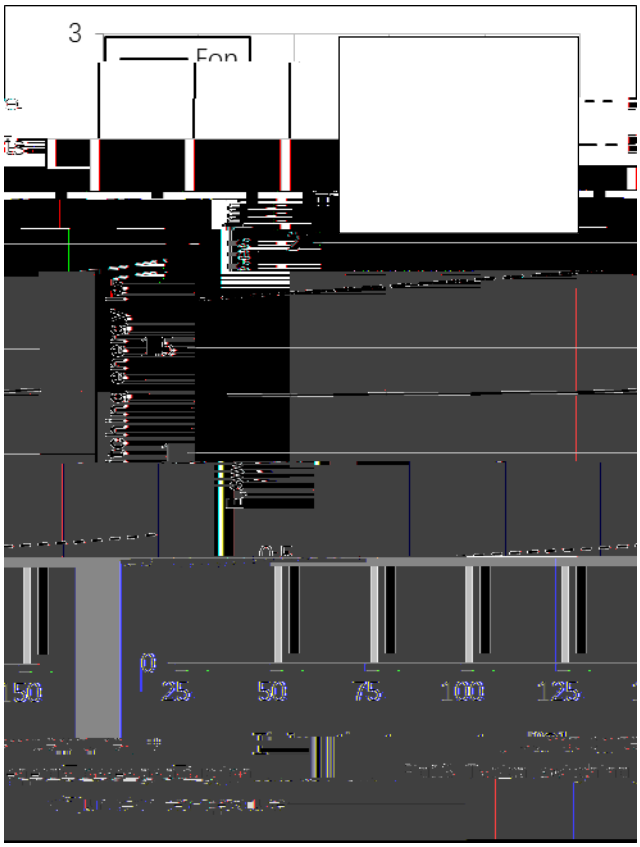
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Dynamic , at T_j= 25						
Turn-on Delay Time	t_d					

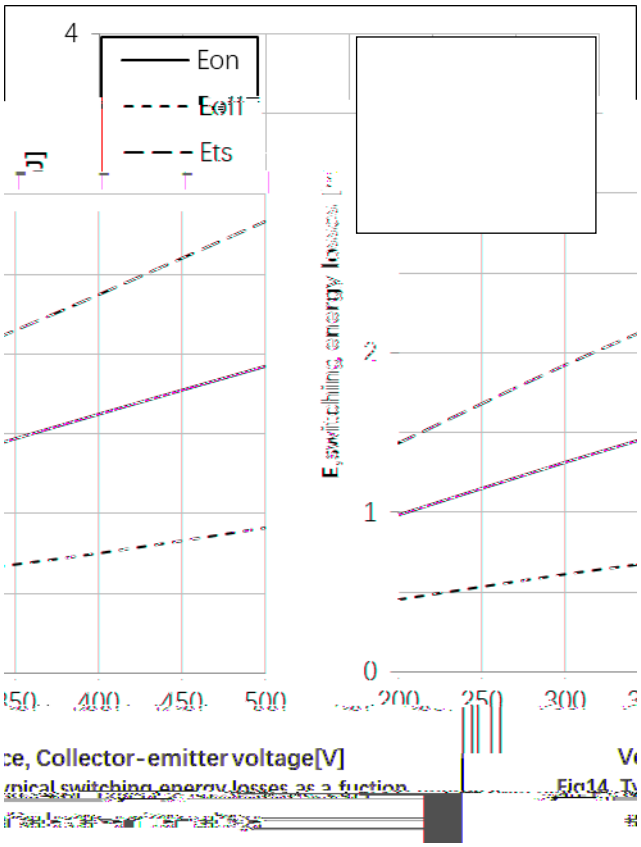

80
60
50
[A]
30
20
10
0
8
10
12
2
4
6

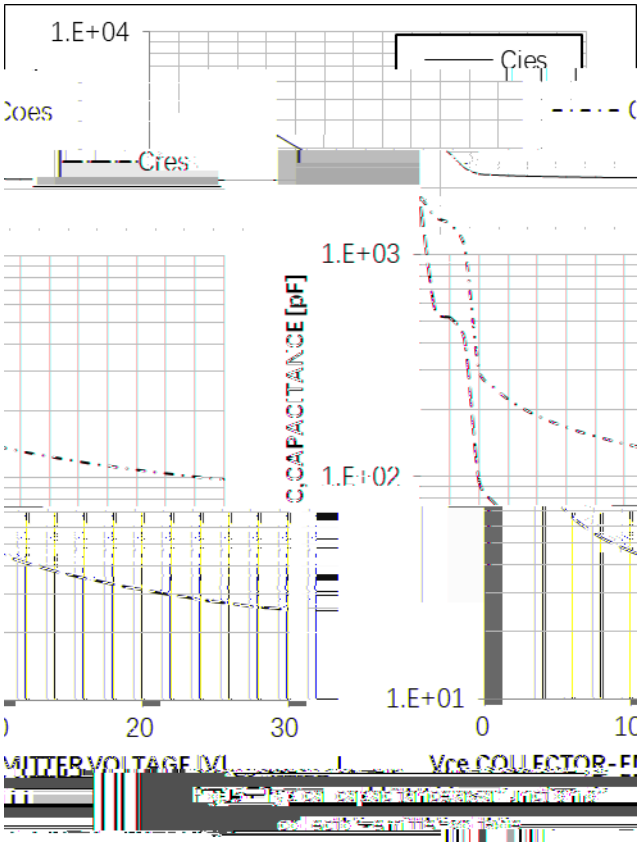

3
Ic=20A
Ic=40A
Ic=80A
1
25
50
75
100
125
150
Tj, Junction temperature [°C]

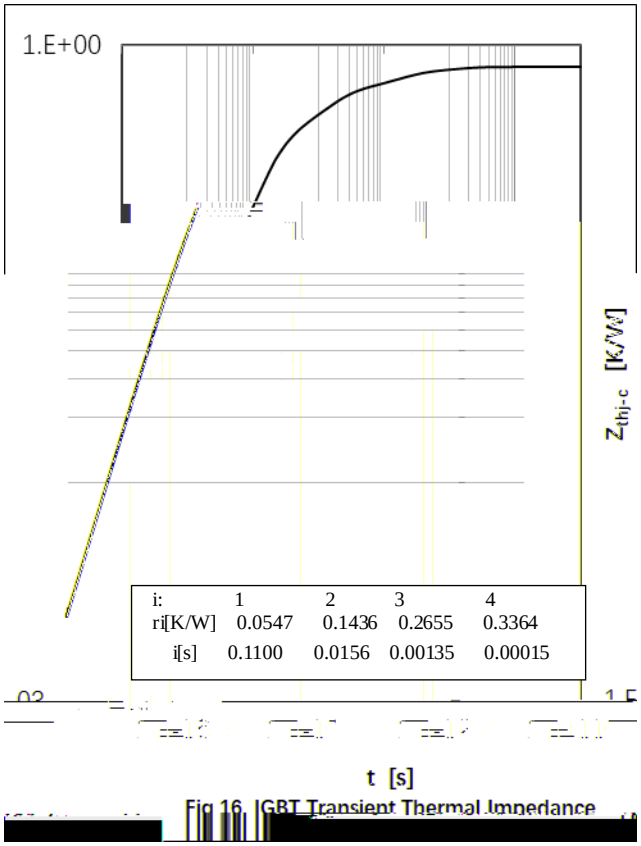

1000
100
10
1
t,switching times [ns]
tdoff
40
50
60
70
80
10
20
30
toer,current [A]
Ic, Collec



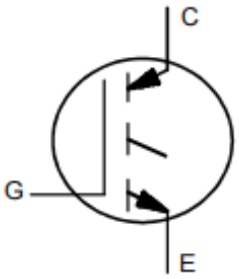

3
Eon
0
25
50
75
100
125


4
Eon
Eoff
Ets
E,switching energy loss
2
1
0
400
450
500
300
ce, Collector-emitter voltage[V]


1.E+04
Cies
Coes
Cres
1.E+03
1.E+02
1.E+01
C,CAPACITANCE [pF]
20
30
0


1.E+00
i: 1 2 3 4
ri[K/W] 0.0547 0.1436 0.2655 0.3364
i[s] 0.1100 0.0156 0.00135 0.00015
t [s]
Fig 16, IGBT Transient Thermal Impedance

D D



Package Outline Information

TO-247AB		
Dim	Min	Max
A	4.80	5.20
A1	2.21	2.61
A2	1.85	2.15
b	1.0	1.4
b2	1.91	2.21
C	0.5	0.7
D	20.70	21.30
D1	16.25	16.85
E	15.50	16.10
E1	13.0	13.6
E2	4.80	5.20
E3	2.30	2.70
L		