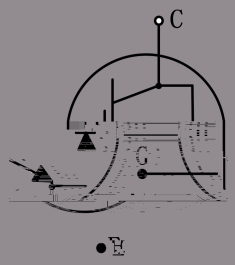
JMICROELECTRONICS

65 A Trench and Field Stop IGBT

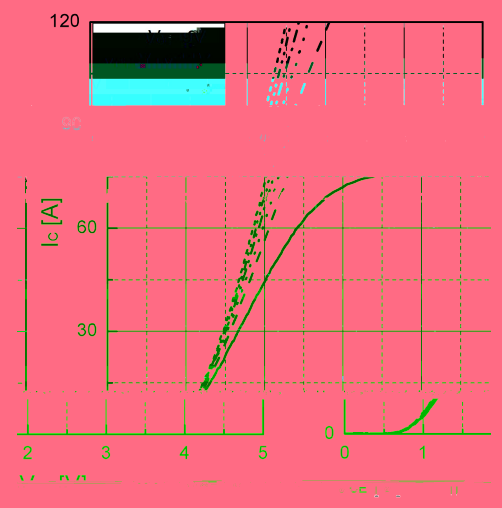
JJT SHEV



$\mu S, D \quad 0.010$

μ

μ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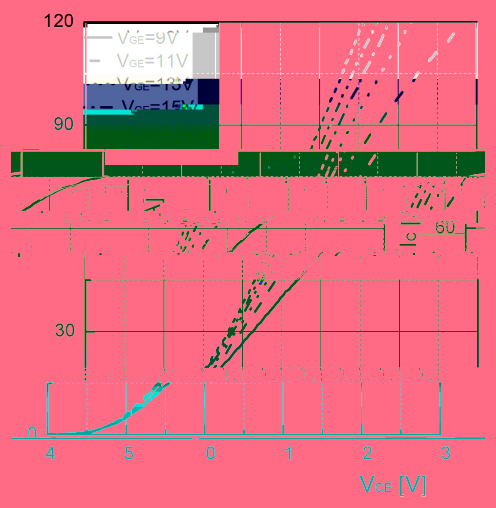
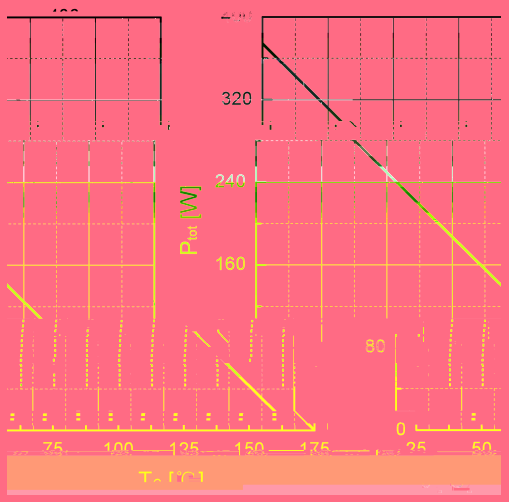
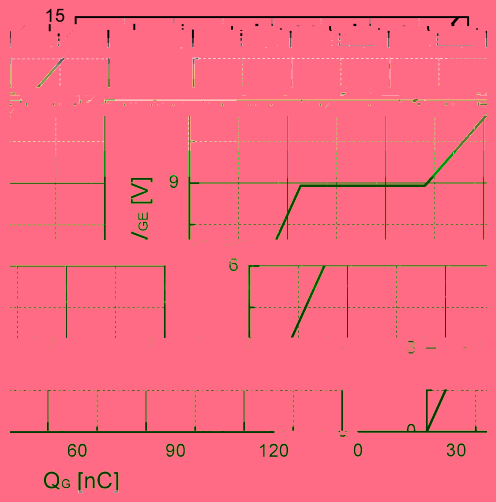
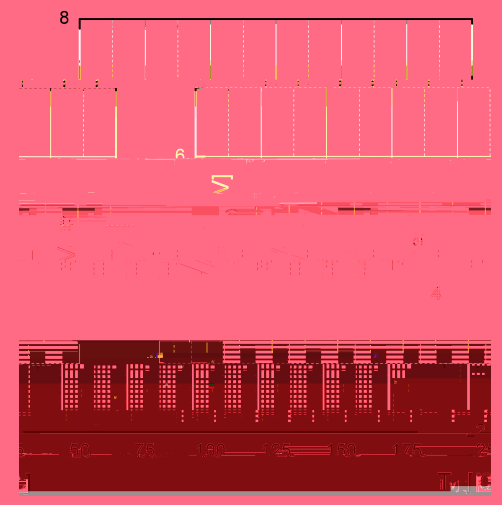
90
60
30
0
IC [A]
2
3
4
5
0
1


120
90
60
30
0
VGE=9V
VGE=11V
VGE=13V
VGE=15V
IC [A]
4
5
0
1
2
3
VCE [V]


320
240
160
80
0
Ptot [W]
75
100
125
150
175
25
50


15
9
6
VGE [V]
60
90
120
0
30
QG [nC]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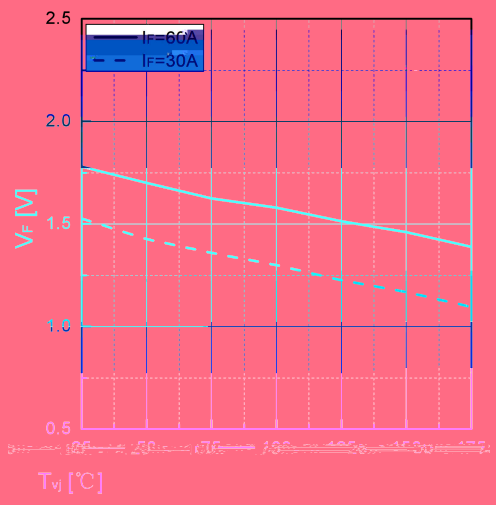
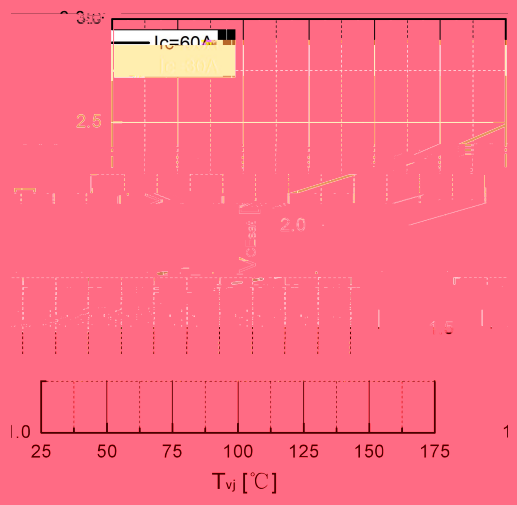
6
4


2.5
2.0
1.5
1.0
0.5
IF=60A
IF=30A
VF [V]
Tvj [°C]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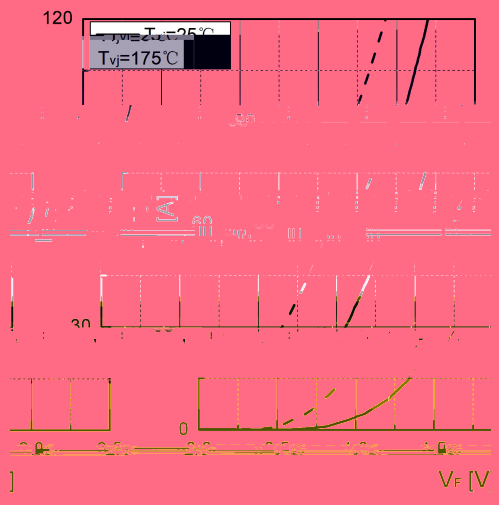
2.0
1.0
25
50
75
100
125
150
175
Tvj [°C]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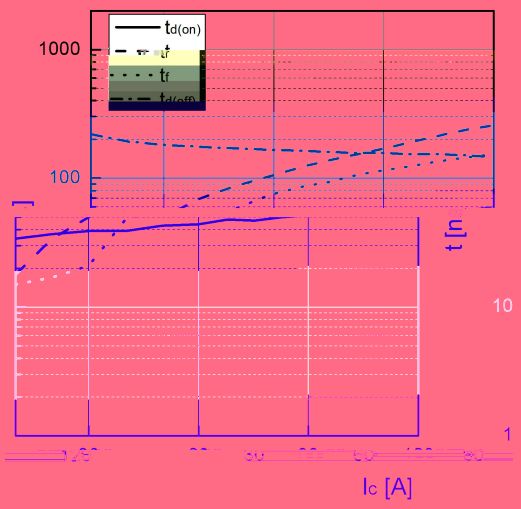
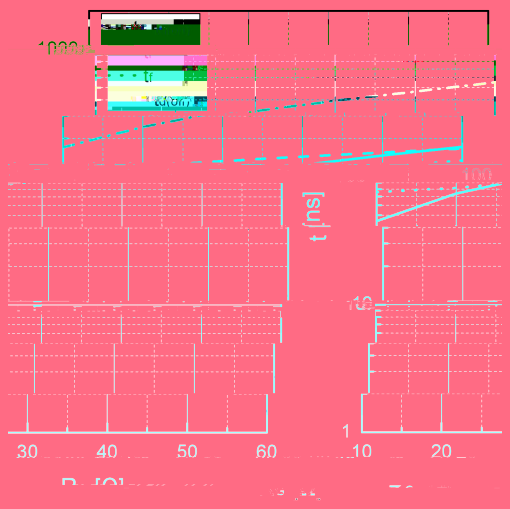
Tvj=175°C
0
VF [V


td(on)
tr
td(off)
1000
100
10
1
IC [A]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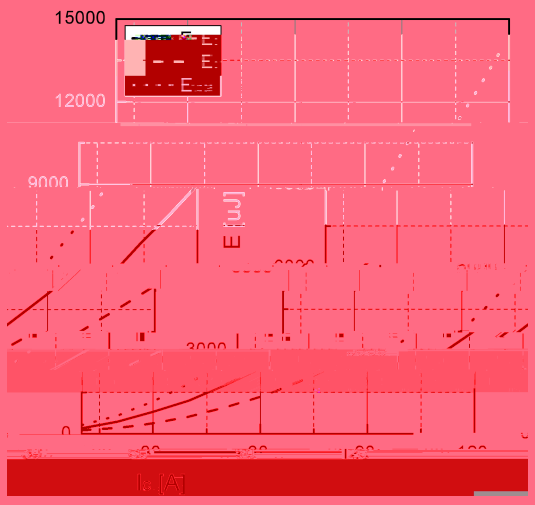
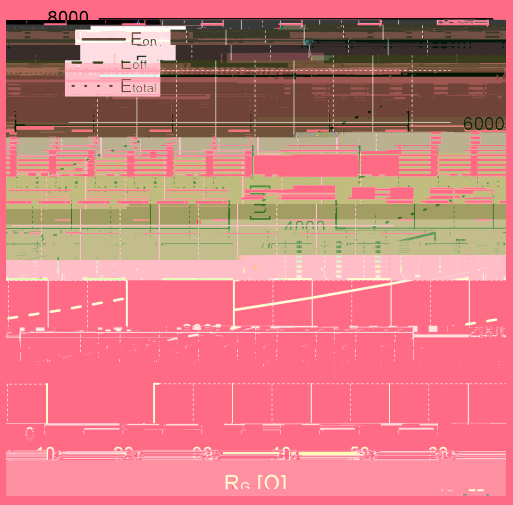
30
40
50
60
10
20


15000
12000
9000
E [uJ]


8000
Eon
Eoff
Etotal
6000
4000
RG [Ω]

[redacted]