JJMICROELECTRONICS

# 650V 15A Trench and Field Stop IGBT

## JJT15N65SY

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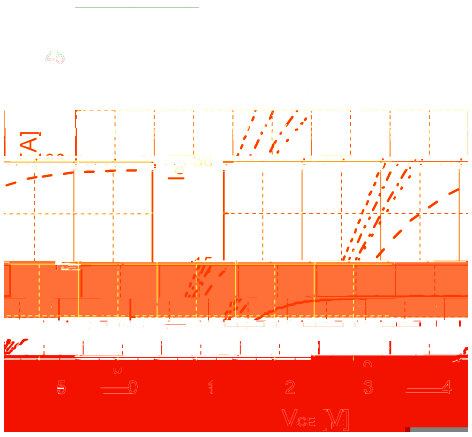
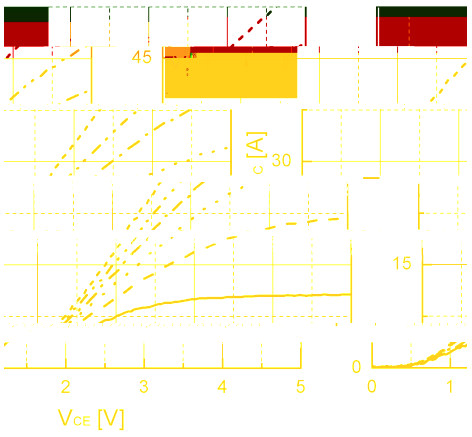
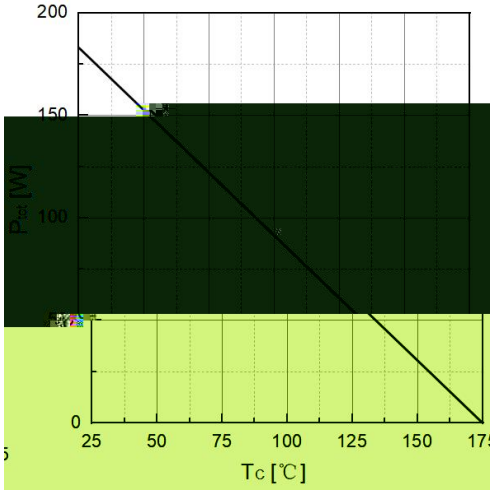
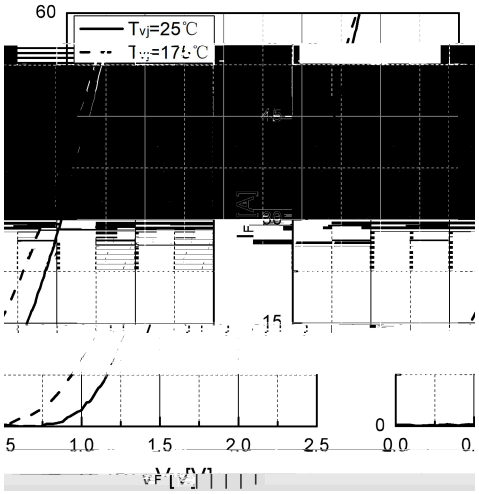
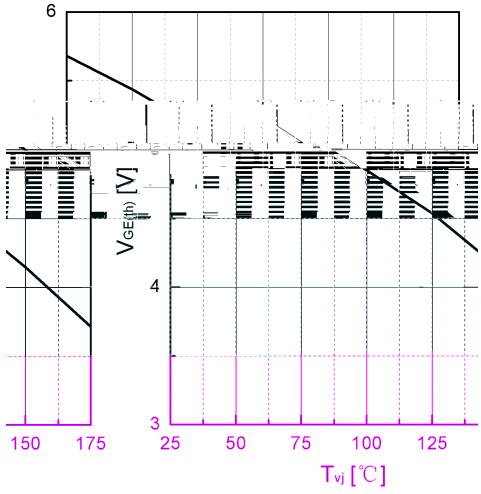
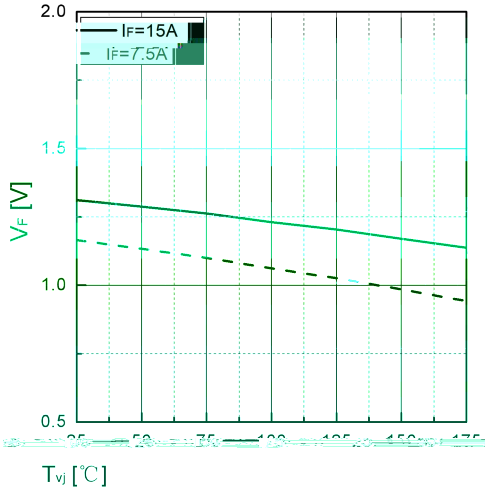



45
30
15
0
2
3
4
5
0
1
VCE [V]


200
150
100
0
25
50
75
100
125
150
Tc [℃]


60
Tvj=25℃
15
5
1.0
1.5
2.0
2.5
0.0


6
4
3
150
175
25
50
75
100
125
Tvj [℃]


2.0
IF=15A
1.5
1.0
0.5
Tvj [℃]

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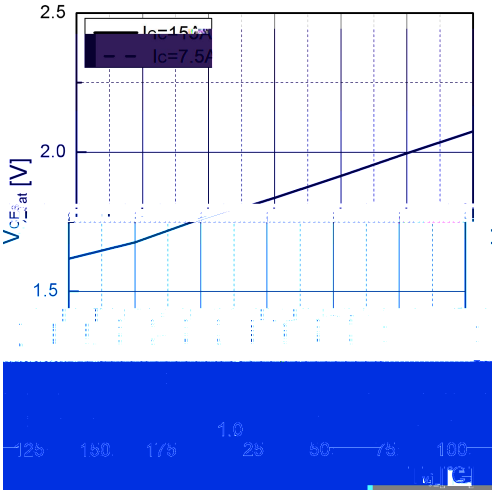
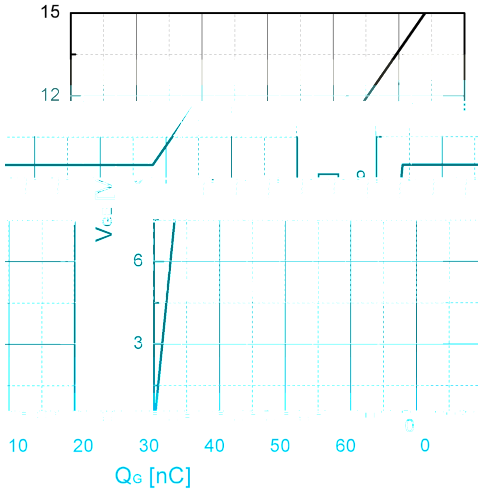

2.5
2.0
1.5
1.0
$V_{CE_sat}$ [V]


15
12
6
3
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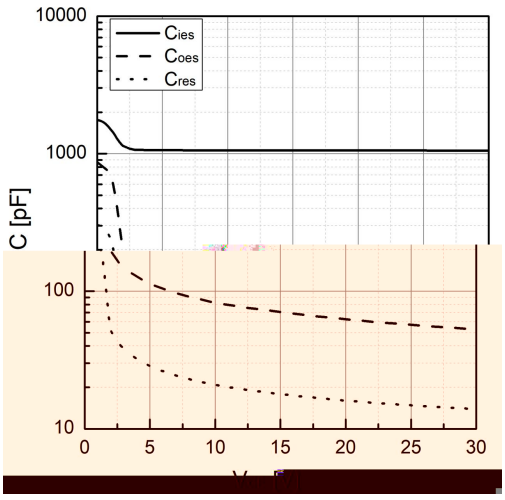
50
60
$Q_G$ [nC]


10000
1000
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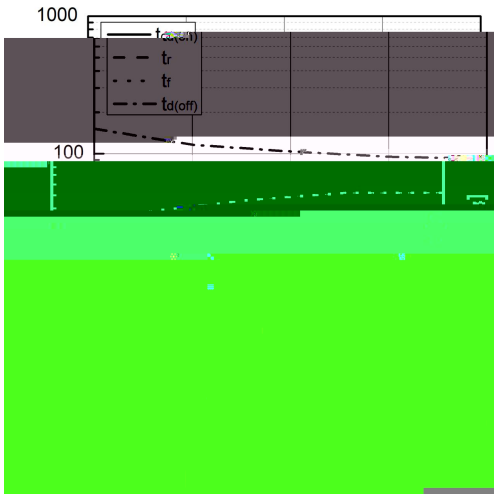
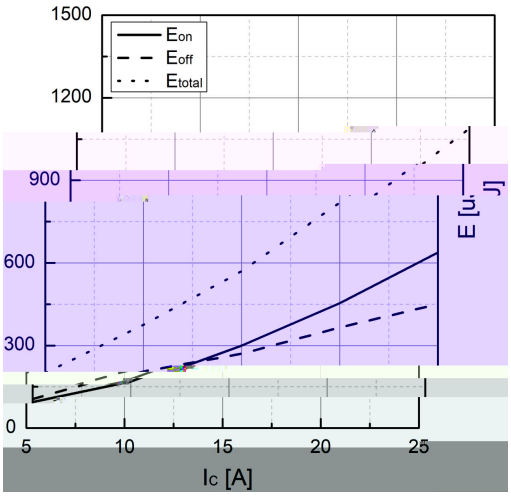
0
5
10
15
20
25
30
C [pF]
Cies
Coes
Cres


1000
100
tr
tf
td(off)


1500
1200
900
600
300
0
5
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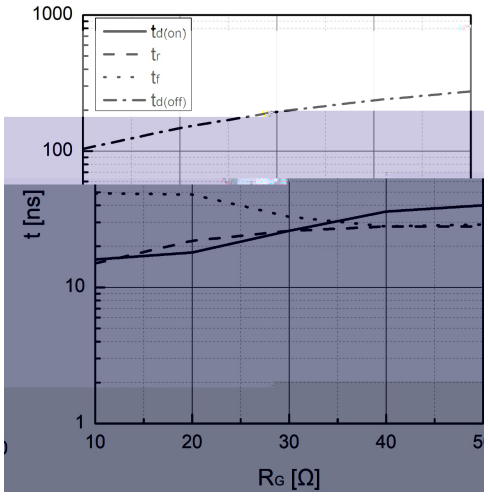
15
20
25
Eon
Eoff
Etotal
E [u. J]
$I_C$ [A]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td(on)
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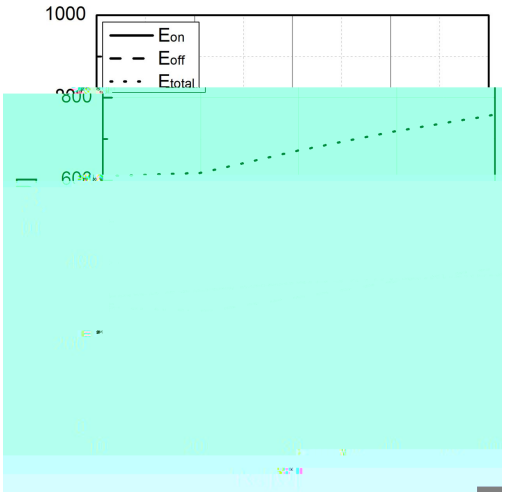
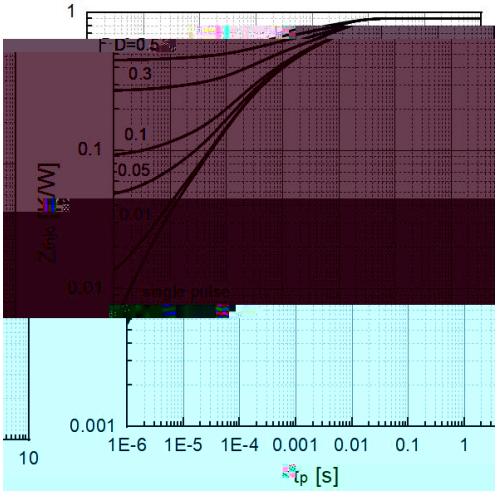
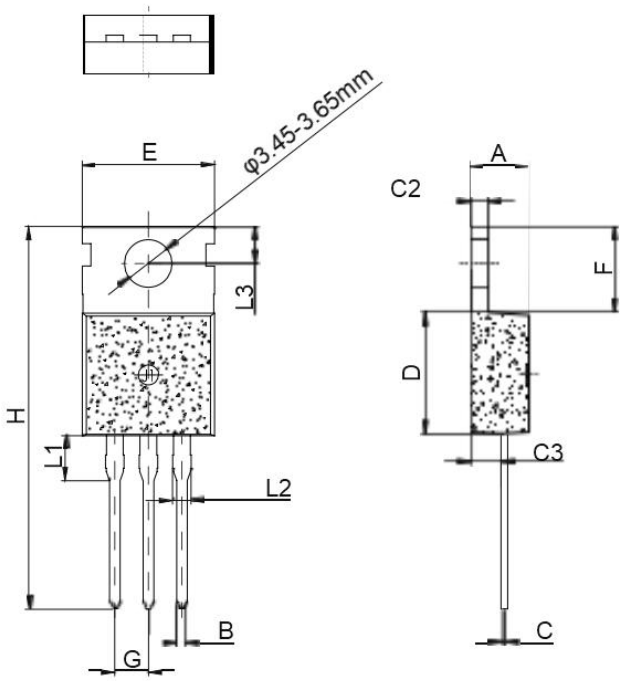
t [ns]
$R_G$ [Ω]

A .


1000
Eon
Eoff
Etotal


1
D=0.5
0.3
0.1
0.05
0.01
single pulse
0.1
0.01
0.001
10
1E-6
1E-5
1E-4
0.001
0.01
0.1
1
tp [s]

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