JJMICROELECTRONICS

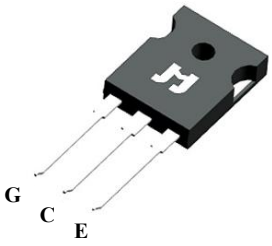
650V 40A Trench and Field Stop IGBT

JJT40N65SE

K :

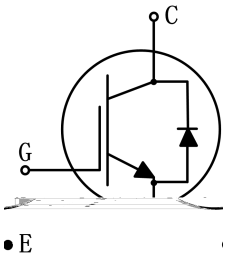
- $_{CE}$=650V
- $_{C}$=40A@ $_{C}$=100
- $_{CE(\ )}$=1.7V

TO-247



F :

- T - IGBT .
- P $V_{CE(\ )}$.
- F .
- 8 .



B :

- H M .
- H .
- R HS .

A :

- M

P

T	M	P	P M
JJT40N65SE	T4065SE	TO-247	T

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M

	P		
CES	C -	650	V
GES	G -	20	V
C	C (C=25)	80	A
	C (C=100)	40	A
CM	P ,	160	A
F	D (C=100)	40	A
FM	D ,	160	A
	S	8	µ
	P (C=25)	300	
	P (C=100)	150	
	O	-40 +175	
	S	-55 +150	

	P			
		.	M .	
(-)	T , IGBT	-	0.5	K/
(-)	T , D	-	0.9	K/
(-)	T ,	-	40	K/

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E IGB (=25)

S

	P					
			M .	.	M .	
CES	C -	GE=0V, IC=250μA	650	-	-	V
CES	C -	CE=650V, GE=0V	-	-	50	μA
GES	G ,	GE=20V, CE=0V	-	-	100	A
	G ,	GE=-20V, CE=0V	-	-	-100	A
GE( )	G -	GE= CE, C=1mA	5.2	5.7	6.2	V
CE( )	C -	GE=15 V, C=40A	-	1.7	-	V
		GE=15V, C=40A, =175	-	2.2	-	V

D

	P					
			M .	.	M .	
	I	CE=30V GE=0V =1MH	-	1844	-	F
	O		-	100	-	F
	R		-	27	-	F
	T	CC=520V GE=15V C=40A	-	125	-	C

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S

	P					
			M .	.	M .	
( )	T -		-	25	-	
	R		-	77	-	
( )	T -	CC=400V	-	162	-	
	F	GE=0/15V	-	64	-	
	T -	C=40A	-	1.8	-	J
	T -	G=10Ω	-	0.9	-	J
	T	I	-	2.7	-	J
( )	T -		-	25	-	
	R		-	79	-	
( )	T -	CC=400V	-	187	-	
	F	GE=0/15V	-	107	-	
	T -	C=40A	-	1.9	-	J
	T -	G=10Ω	-	1.2	-	J
	T	I =175	-	3.1	-	J

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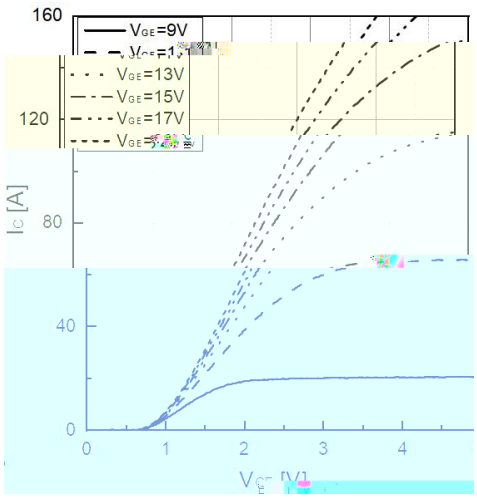
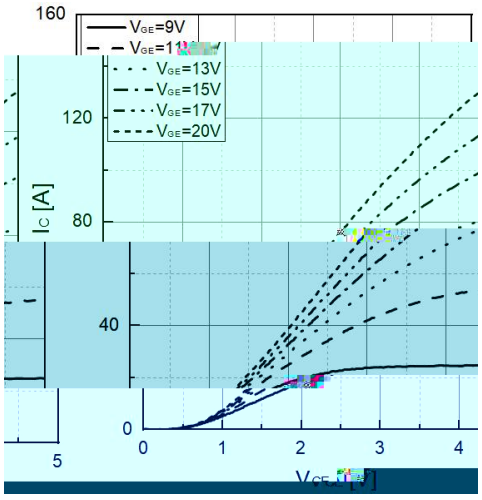
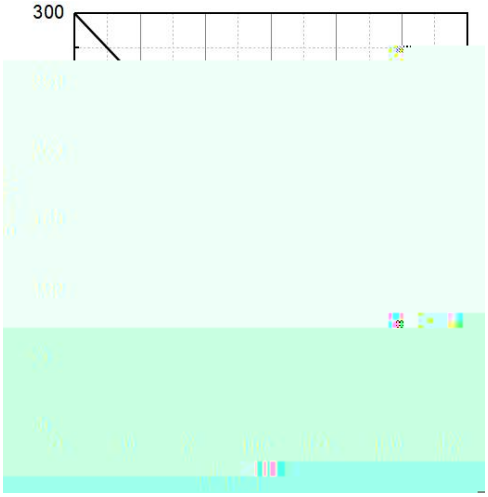


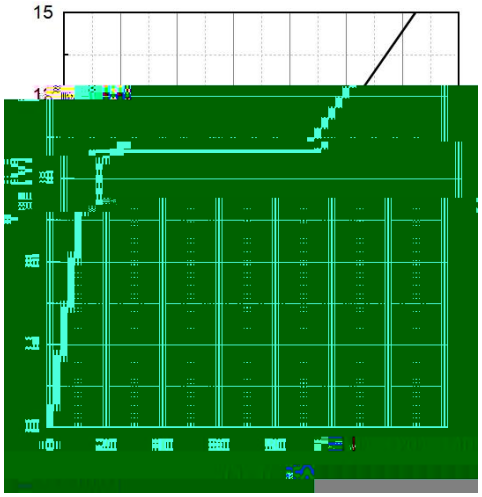
F 1. T (=25)



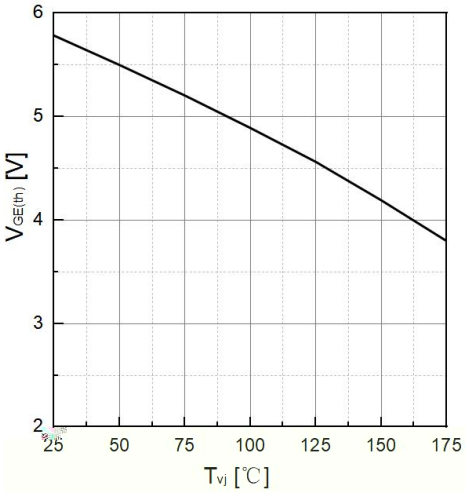
F 2. T (=175)



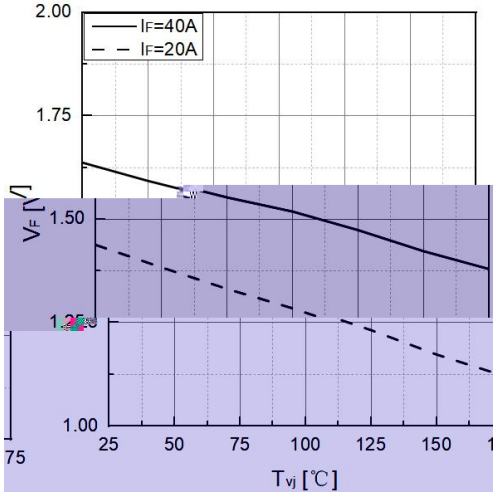
F 3. P



F 4. T G



F 5. T GE( )
(C=1 A)



F 6. T F

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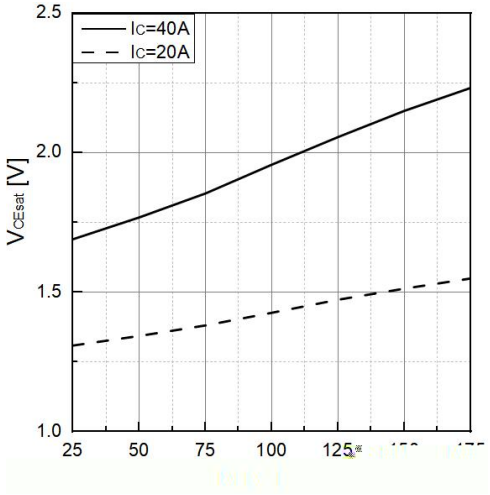
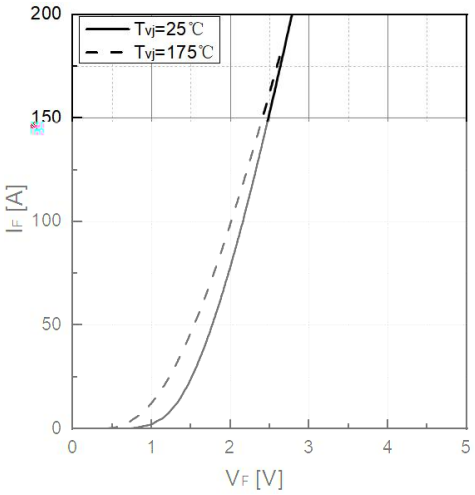
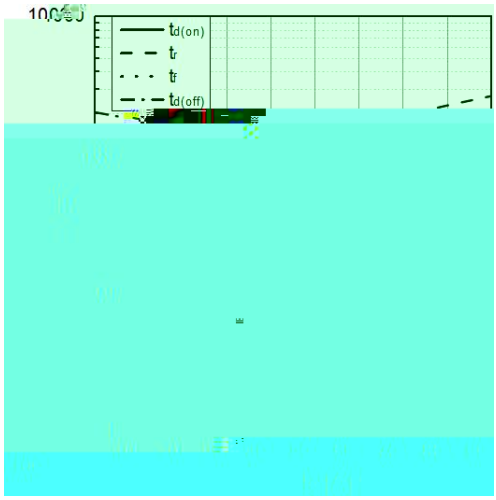


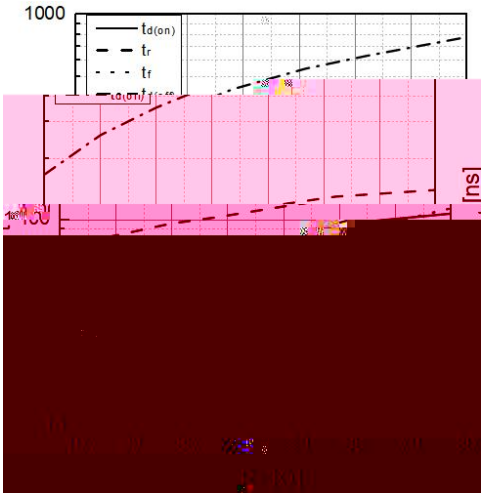
F 7. T CE



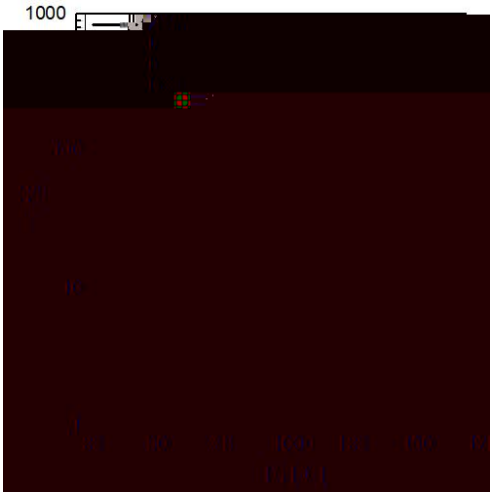
F 8. T F F



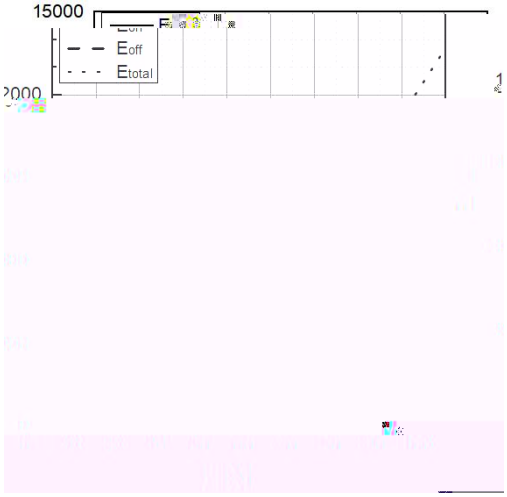
F 9. T C



F 10. T G



F 11. T



F 12. T

C

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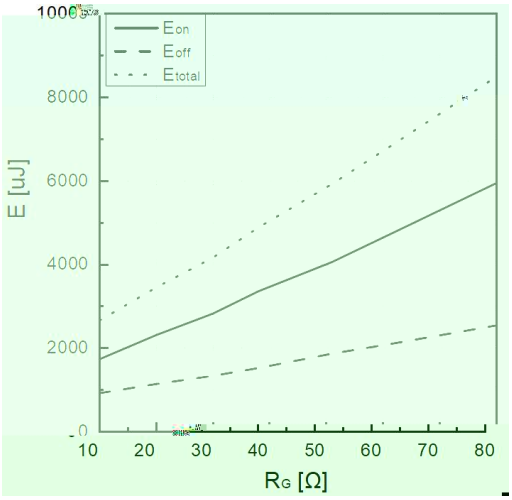
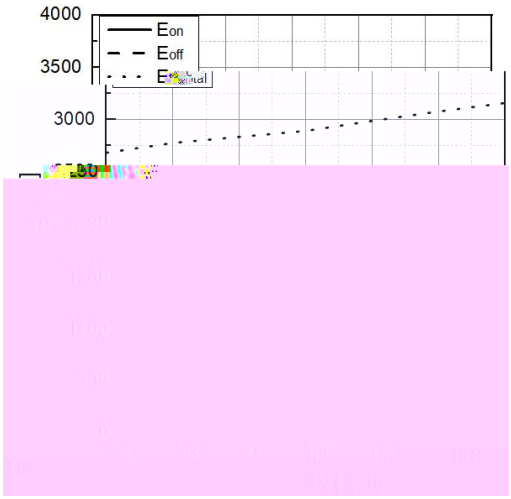
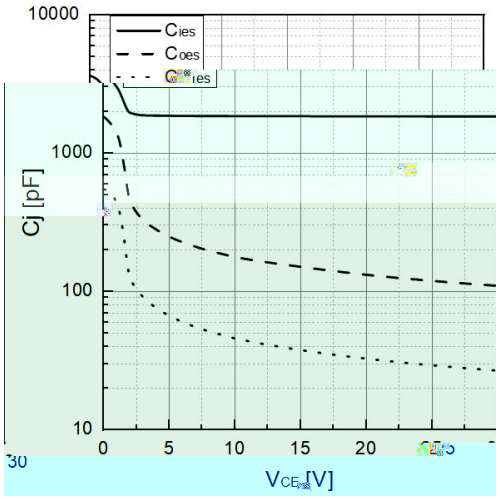


F 13. T

G

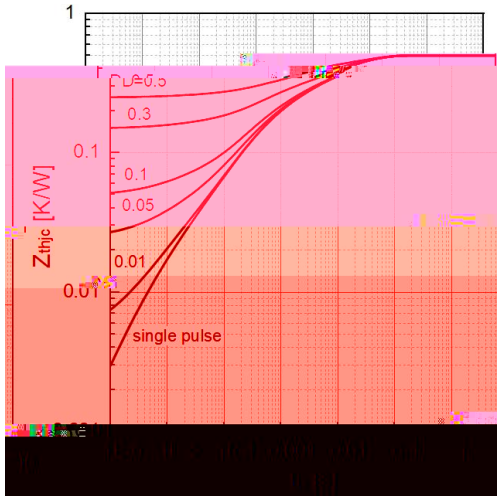


F 14. T



F 15. T CE

(=1M , GE=0V)



F 16. T IGBT

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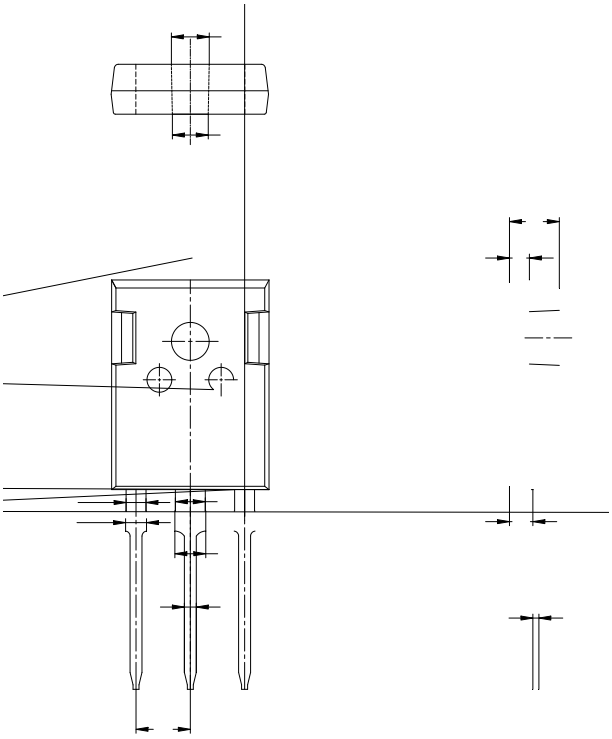
P

TO-247



R .	D					
	M			I		
	M .	T .	M .	M .	T .	M .
A	15.50	15.80	16.10	0.610	0.622	0.634
B	20.80	21.00	21.20	0.819	0.827	0.835
C	19.70	20.00	20.30	0.776	0.787	0.799
D	1.80	2.00	2.20	0.071	0.079	0.087
E	1.90	2.10	2.30	0.075	0.083	0.091
F	1.00	1.20	1.40	0.039	0.047	0.055
G	5.25	-	5.65	0.207	-	0.222
H	4.80	5.00	5.20	0.189	0.197	0.205
J	1.90	2.00	2.10	0.075	0.079	0.083
K	2.20	2.35	2.50	0.087	0.093	0.098
L	0.41	0.60	0.79	0.016	0.024	0.031
M	2.80	3.00	3.20	0.110	0.118	0.126
N	2.90	3.10	3.30	0.114	0.122	0.130

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D	R	C
2025-05-05	R 1.0	P R
2025-11-30	R 1.1	R C
2026-06-25	R 1.2	U

D

PLEASE NOTE - J J J M C ., L ("JJM") , ,
/ . I
, . T
JJM JJM'
JJM'
. P JJM
, , JJM' . A JJM
. T JJM
J J J M C ., L . T
. 2025 JJM - A

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