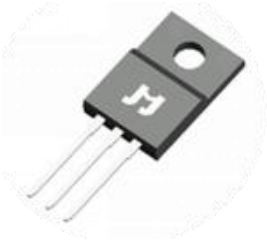
JJMICROELECTRONICS

650V 10A Trench and Field Stop IGBT

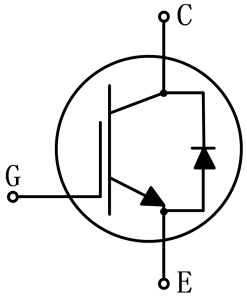
JJT10N65SS

- $_{CE}$=650V
- $_{C}$=10A@ $_{C}$=100
- $_{CE(\ )}$=1.8 V

TO-220F



- H
- 10
- P $_{CE(\ )}$
- H
- E
- R HS



- H
- M

T M

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CES	C -	650	V
GES	G -	20	V
	C (C=25)	20	A
	C (C=100)	10	A
CM	P ,	40	A
F	D (C=100)	10	A
FM	D ,	40	A
	S	10	
	P (C=25)	60	
	P (C=100)	30	
	O	-40 +175	
	S	-55 +150	

(-) T , IGBT - 2.5 K/

(-) T , D

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(=25)

S

CES	C -	GE=0V, C=250 A	650	-	-	V
CES	C -	CE=650V, GE=0V	-	-	50	A
GES	G ,	GE=20V, CE=0V	-	-	100	A
	G ,	GE=-20V, CE=0V	-	-	-100	A
GE( )	G -	GE= CE, C=1 A	5.3	5.8	6.3	V
CE( )	C -	GE=15V, C=10A	-	1.8	-	V
		GE=15V, C=10A, =175	-	2.3	-	V

D

	I	CE=30V GE=0V =1MH	-	670	-	F
	O		-	37	-	F
	R		-	10	-	F
	T	CC=520V GE=15V C=10A	-	28	-	C

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S

( )	T -		-	12	-	
	R		-	11	-	
( )	T -	CC=400V	-	74	-	
	F	GE=0/15V	-	71	-	
	T -	C=10A	-	0.18	-	J
	T -	G=10Ω	-	0.17	-	J
	T	I	-	0.35	-	J
( )	T -		-	11	-	
	R		-	13	-	
( )	T -	CC=400V	-	114	-	
	F	GE=0/15V	-	87	-	
	T -	C=10A	-	0.22	-	J
	T -	G=10Ω	-	0.27	-	J
	T	I =175	-	0.49	-	J

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(=25)

F	D	$_F$=10A	-	1.4	-	V
		$_F$=10A, =175	-	1.2	-	V
	D	$_R$=400V $_F$=10A $_F$/ =-750A/	-	57	-	
	D		-	12	-	A
	D		-	411	-	C
	D	$_R$=400V $_F$=10A $_F$/ =-750A/ =175	-	124	-	
	D		-	13	-	A
	D		-	737	-	C

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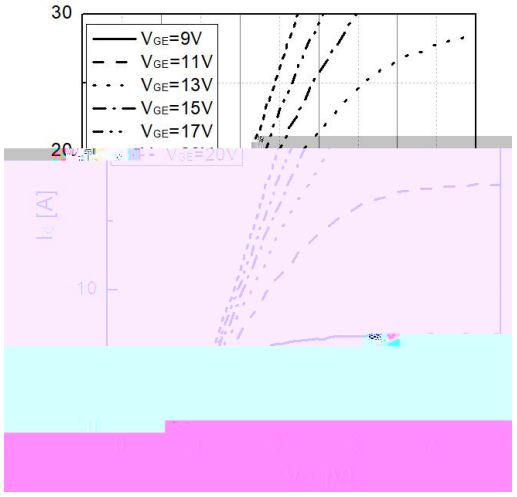
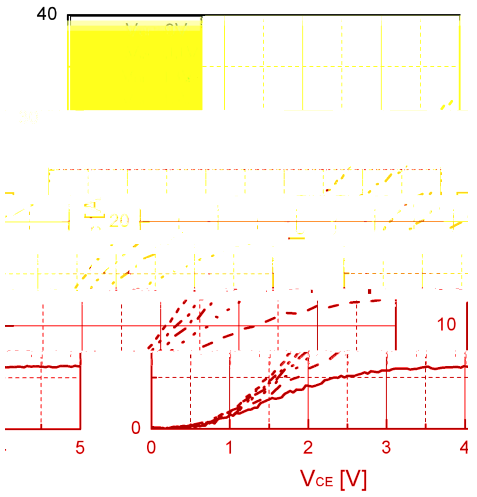
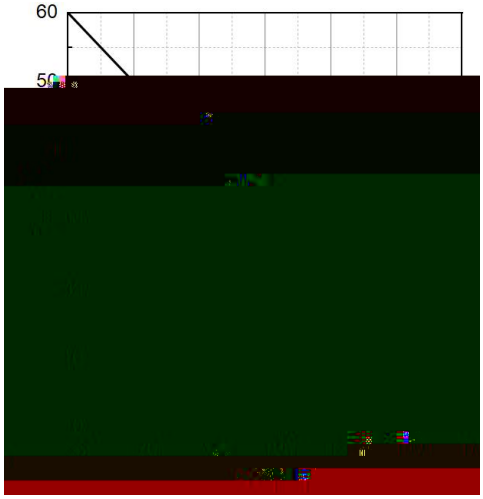


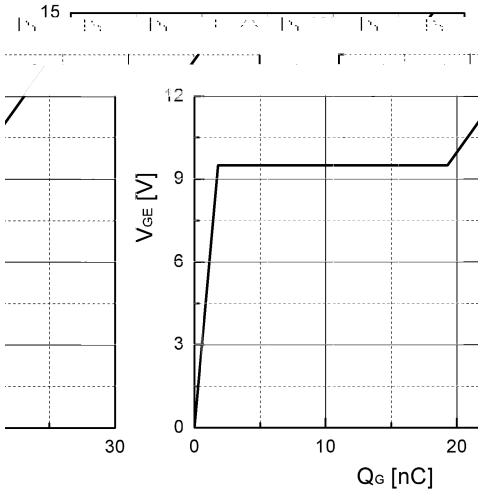
F 1. T (=25)



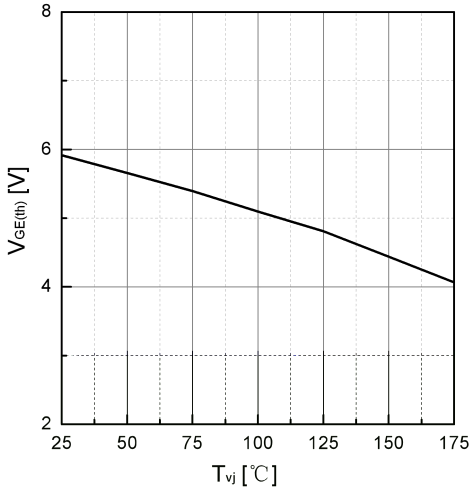
F 2. T (=175)



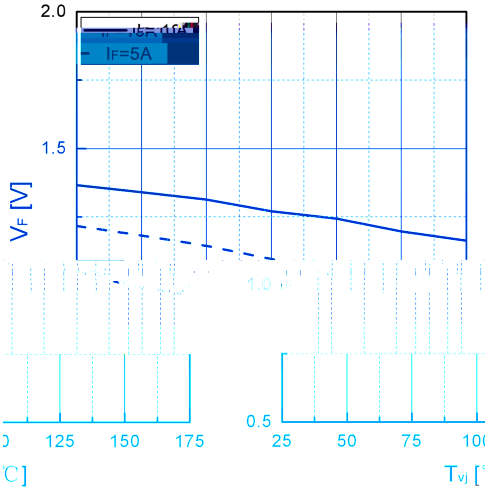
F 3. P



F 4. T G



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



F 6. T F

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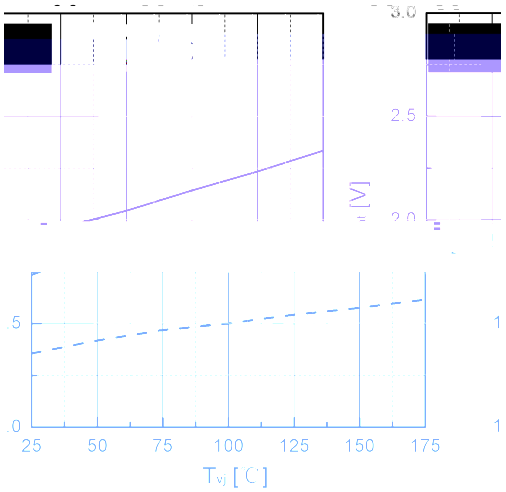
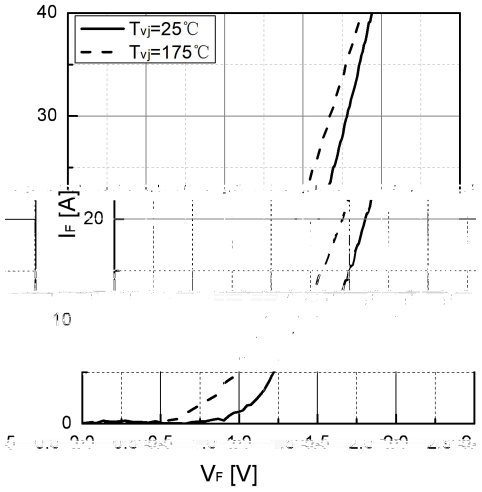
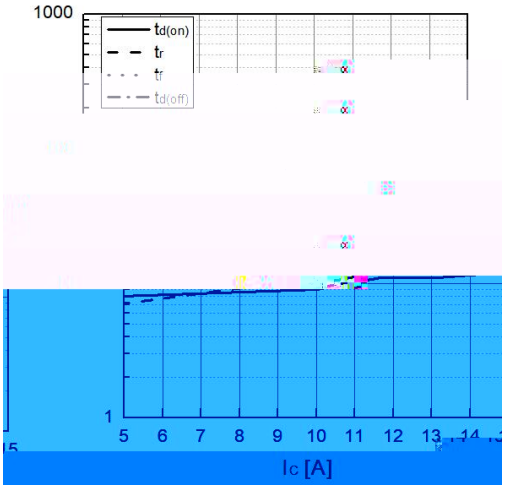


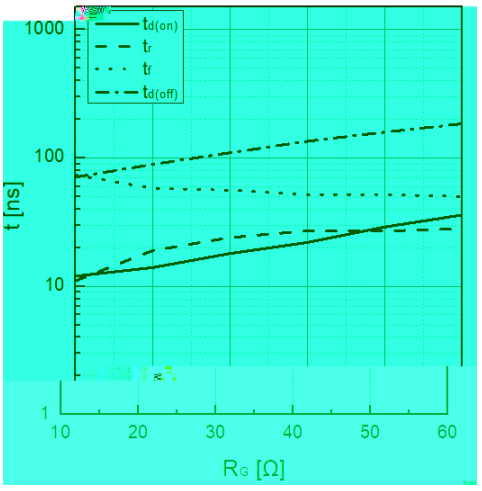
F 7. T CE



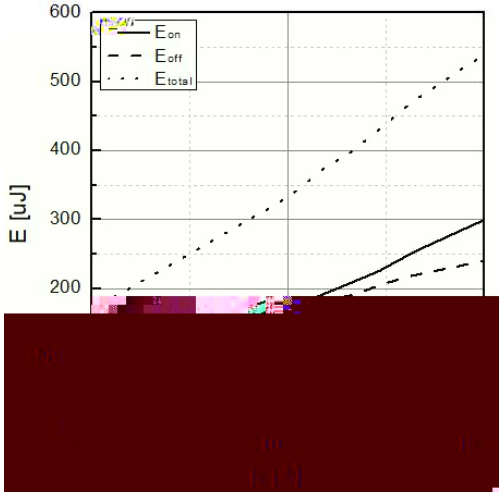
F 8. T F F



F 9. T C

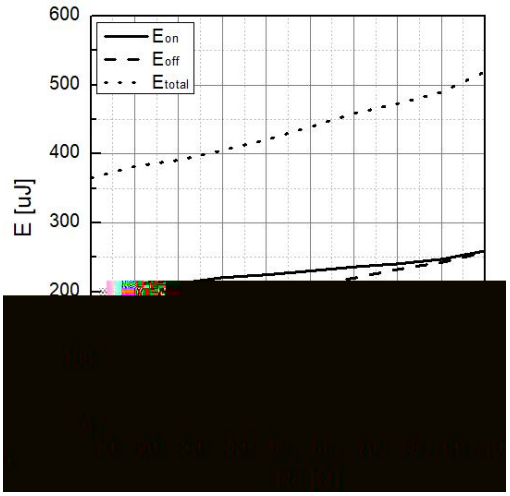


F 10. T G



F 11. T

C



F 12. T

G

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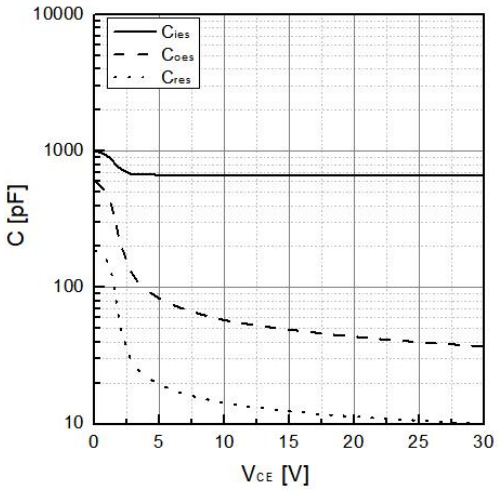
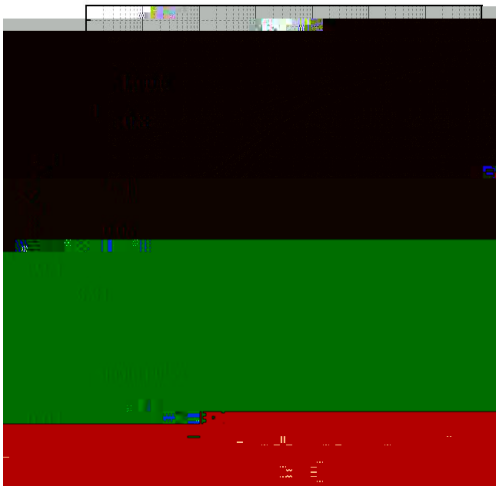


F 13. T CE
(=1M , GE=0V)



F 14. T , IGBT

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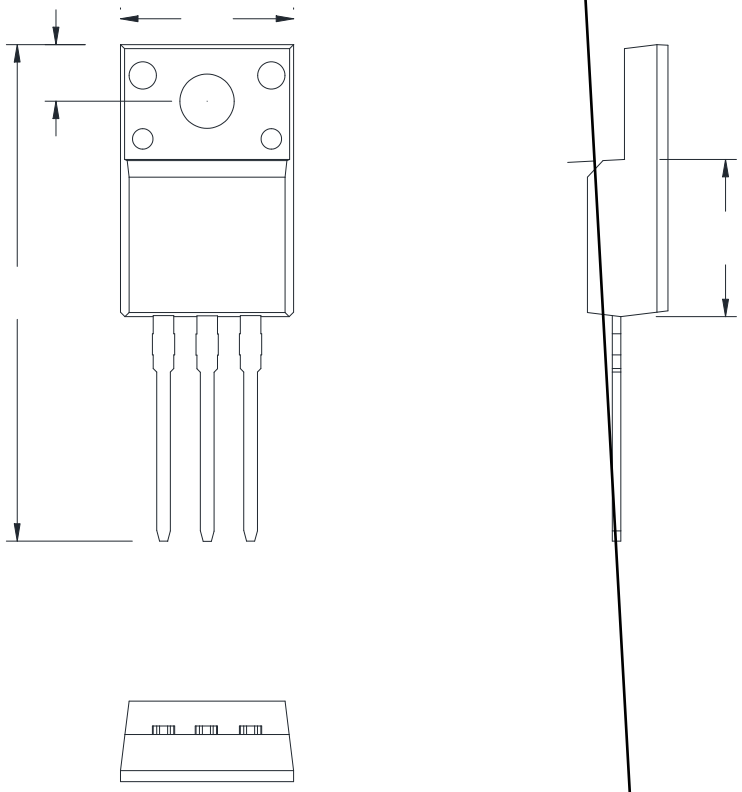
TO-220F



R .	D					
	M			I		
	M .	T .	M .	M .	T .	M .
A	4.50	-	4.90	0.177	-	0.193
B	0.74	0.80	0.83	0.029	0.031	0.033
C	0.47	-	0.66	0.019	-	0.026
C2	2.45	-	2.75	0.096	-	0.108
C3	2.60	-	3.00	0.102	-	0.118
D	8.80	-	9.30	0.346	-	0.366
E	9.80	-	10.40	0.386	-	0.410
F	6.40	-	6.80	0.252	-	0.268
G	2.40	-	2.70	0.094	-	0.106
H	28.0	.-	29.80	1.102	-	1.173
L1	-	3.63	-	-	0.143	-
L2	1.14	-	1.70	0.045	-	0.067
L3	-	3.30	-	-	0.130	-
V1	-	45 °	-	-	45 °	-

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D	R	C
2024-03-20	R 1.1	U
2025-02-06	R 1.2	U
2025-04-08	R 1.3	C U
2026-06-24	R 1.4	U

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
. 2026 JJM - A

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