JJMICROELECTRONICS

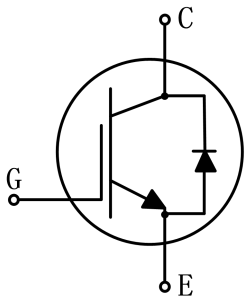
650V 10A Trench and Field Stop IGBT

JJT10N65ST

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

TO-252

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



- H
- M

T	M	P	P
JJT10N65ST	T1065ST	TO-252	T

All d c i f a i i c igh ed a d bjec legal di clai e .

CES	C	-	650	V
GES	G	-	20	V
	C	(C=25)	20	A
C				
	C	(C=100)	10	A
CM	P	,	40	A
F	D	(C=100)	10	A
FM	D	,	40	A
	S		10	µ

Ad a bje le di e .

(=25)

S

CES	C -	GE=0V, C=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=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

All d c i f ai i c igh ed a d bjec legal di clai e .

S

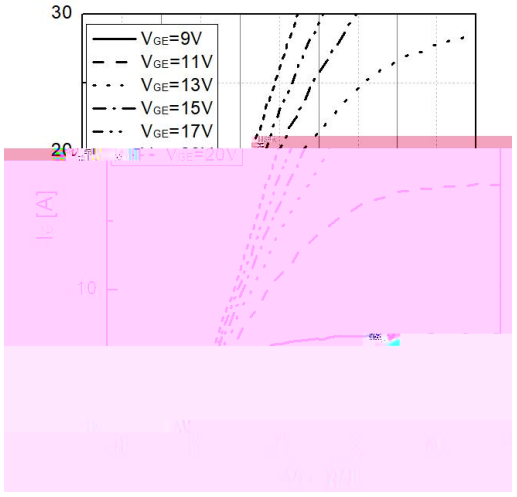
( )	T -		-	12	-	
	R		-	11	-	
( )	T -	CC=400V	-	74	-	
	F	GE=0/15V	-	71	-	
	T -	C=10A	-	0.18	-	J
	T -	G=10Ω	-	0.17	-	J
	T	I	-	0.35	-	J
( )	T -		-	11	-	
	R		-	13	-	
( )	T -	CC=400V	-	114	-	
	F	GE=0/15V	-	87	-	
	T -	C=10A	-	0.22	-	J
	T -	G=10Ω	-	0.27	-	J
	T	I =175	-	0.49	-	J

All d c i f a i i c igh ed a d bjec legal di clai e .

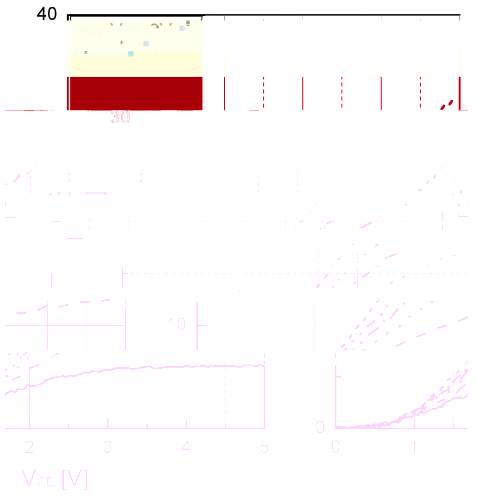
(=25)

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

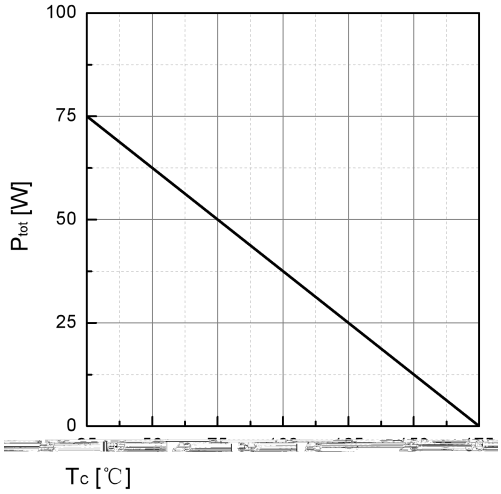
All d c i f ai i c igh ed a d bjec legal di clai e .



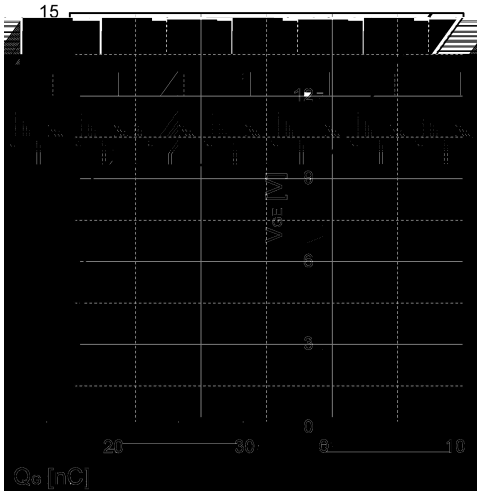
F 1. T (=25)



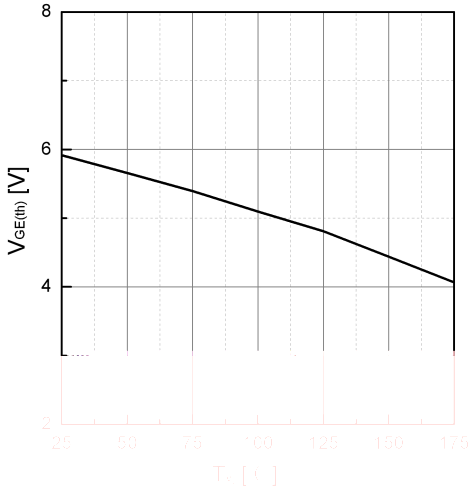
F 2. T (=175)



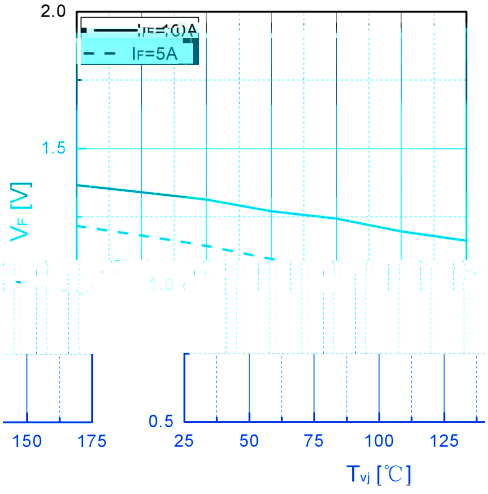
F 3. P



F 4. T G

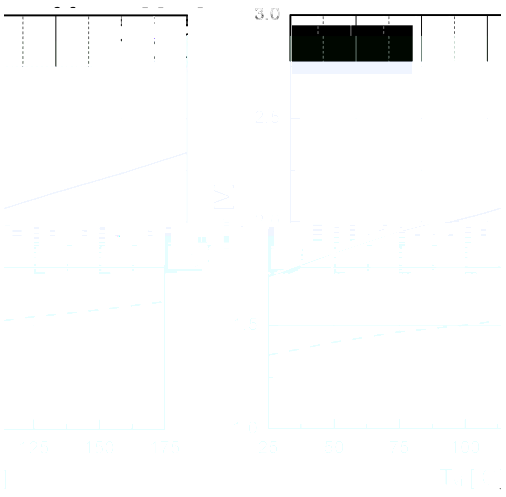


F 5. T GE( )
(C=1 A)

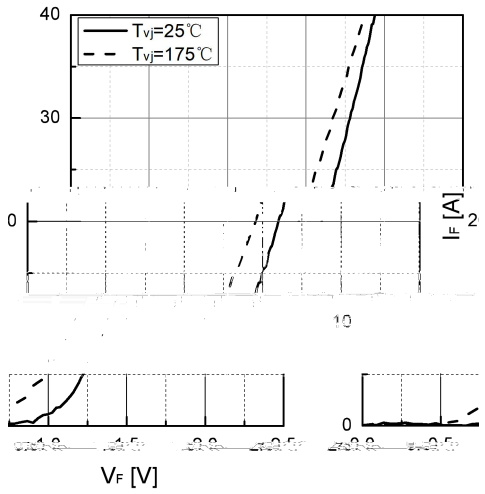


F 6. T F

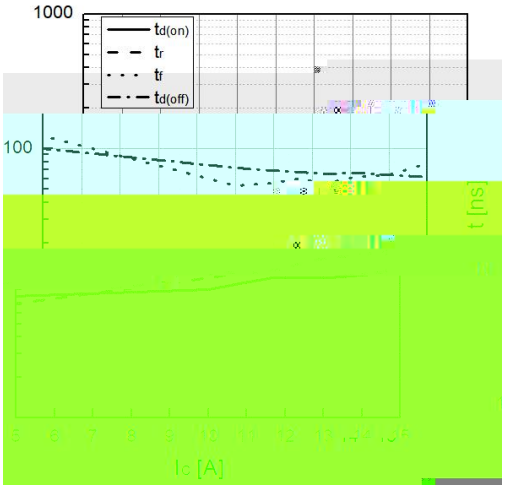
All d c i f a i i c igh ed a d bjec legal di clai e .



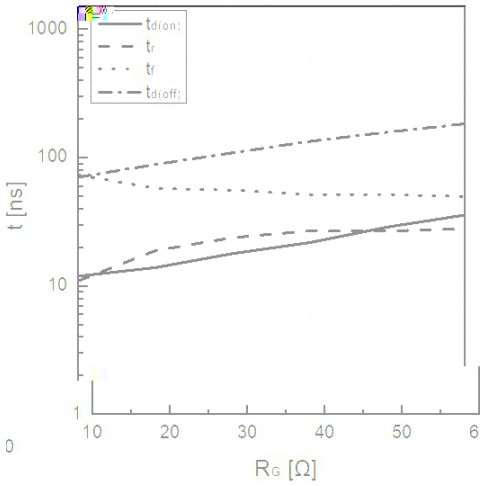
F 7. T CE



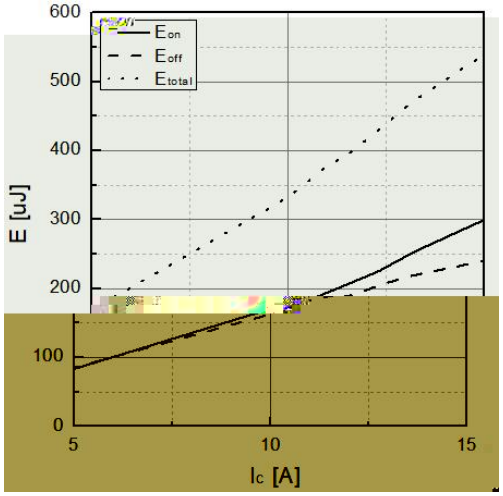
F 8. T F F



F 9. T C

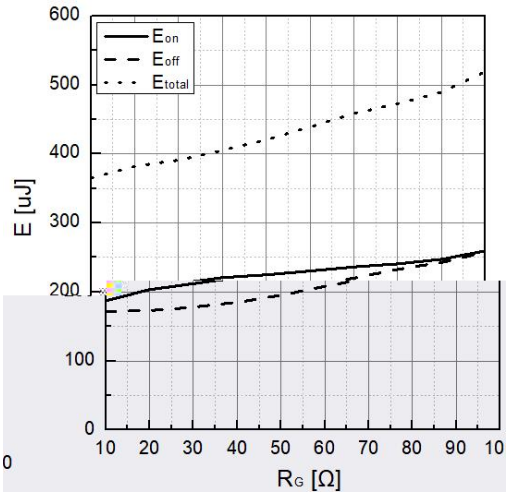


F 10. T G



F 11. T

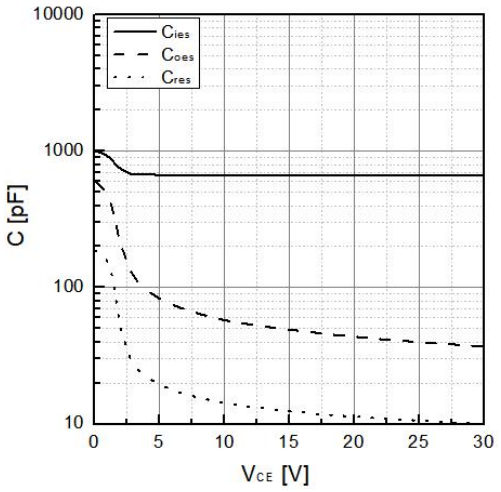
C



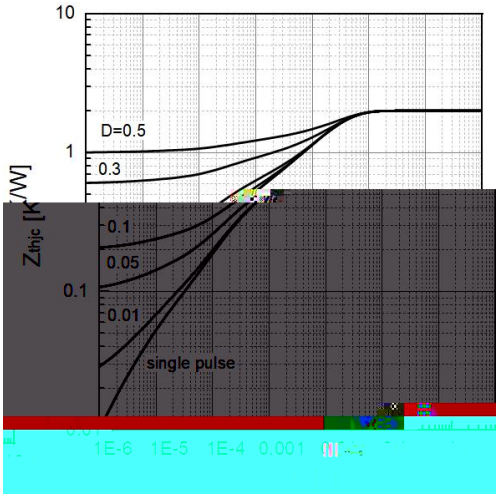
F 12. T

G

All d c i f a i i c igh ed a d bjec legal di clai e .



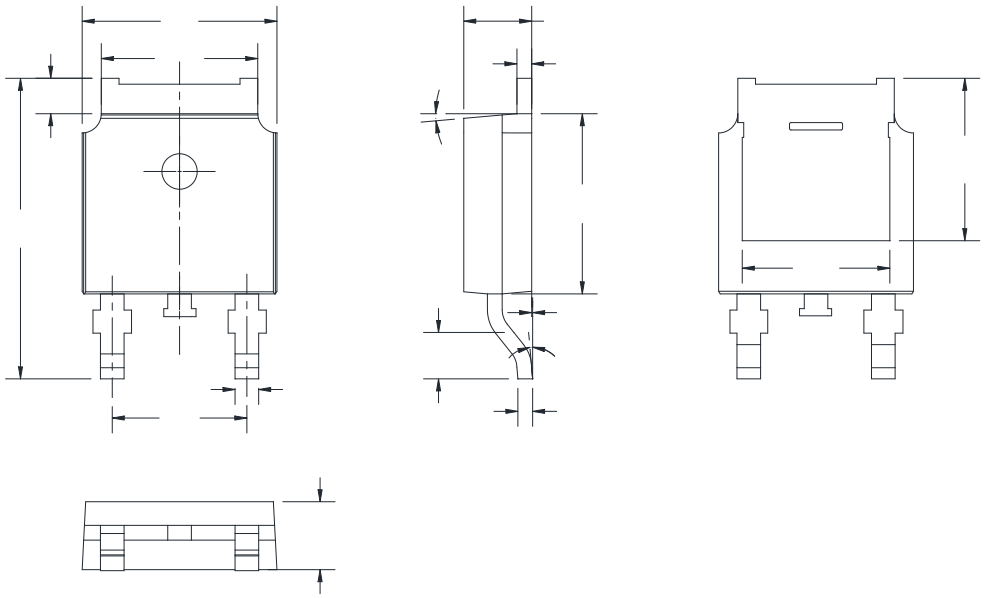
F 13. T CE
(=1M , GE=0V)



F 14. T IGBT

All d c i f ai i c igh ed a d bjec legal di clai e .

TO-252



R .	D					
	M			I		
	M .	T .	M .	M .	T .	M .
A	2.10	-	2.50	0.083	-	0.098
A2	0	-	0.10	0	-	0.004
B	0.66	-	0.86	0.026	-	0.034
B2	5.18	-	5.48	0.202	-	0.216
C	0.40	-	0.60	0.016	-	0.024
C2	0.44	-	0.58	0.017	-	0.023
D	5.90	-	6.30	0.232	-	0.248
D1	5.30 REF			0.209 REF		
E	6.40	-	6.80	0.252	-	0.268
E1	4.63	-	-	0.182	-	-
G	4.47	-	4.67	0.176	-	0.184
H	9.50	-	10.70	0.374	-	0.421
L	1.09	-	1.21	0.043	-	0.048
L2	1.35	-	1.65	0.053	-	0.065
V1	-	7 °	-	-	7 °	-
V2	0 °	-	6 °	0 °	-	6 °

All d c i f ai i c igh ed a d bjec legal di clai e .

D	R	C
2023-12-23	R 1.0	R
2025-02-06	R 1.1	U
2025-04-08	R 1.2	C U
2026-06-23	R 1.3	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
. 2025 JJM - A

All d c i f a i i c igh ed a d bjec legal di clai e .