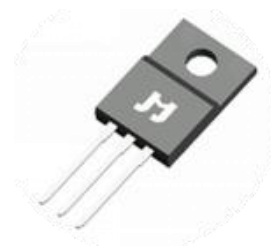


650V 10A Trench and Field Stop IGBT

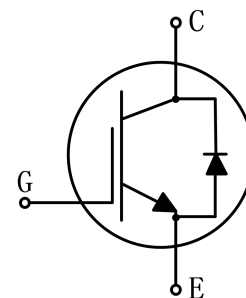
JJT10N65SS

- $V_{CE} = 650V$
- $I_C = 10A @ T_C = 100^\circ C$
- $V_{CE(sat)} = 1.8V$

TO-220F



- H
- 10
- P $V_{CE(sat)}$
- H
- E
- R HS



- H
- M

T

M



CES	C -	650	V
GES	G -	20	V
C	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 - 3.5 K/° % ••

(-) T V , Q D



($\rho = 25$)

S

CES	C -	$V_{GE}=0V, I_C=250\text{ A}$	650	-	-	V
CES	C -	$V_{CE}=650V, V_{GE}=0V$	-	-	50	A
GES	G ,	$V_{GE}=20V, V_{CE}=0V$	-	-	100	A
	G ,	$V_{GE}=-20V, V_{CE}=0V$	-	-	-100	A
$V_{GE}(\rho)$	G -	$V_{GE}=V_{CE}, I_C=1\text{ A}$	5.3	5.8	6.3	V
$V_{CE}(\rho)$	C -	$V_{GE}=15V, I_C=10A$	-	1.8	-	V
		$V_{GE}=15V, I_C=10A, \rho=175$	-	2.3	-	V

D

	I	$V_{CE}=30V$ $V_{GE}=0V$ $\rho=1MH$	-	670	-	F
	O		-	37	-	F
	R		-	10	-	F
	T	$V_{CC}=520V$ $V_{GE}=15V$ $I_C=10A$	-	28	-	C



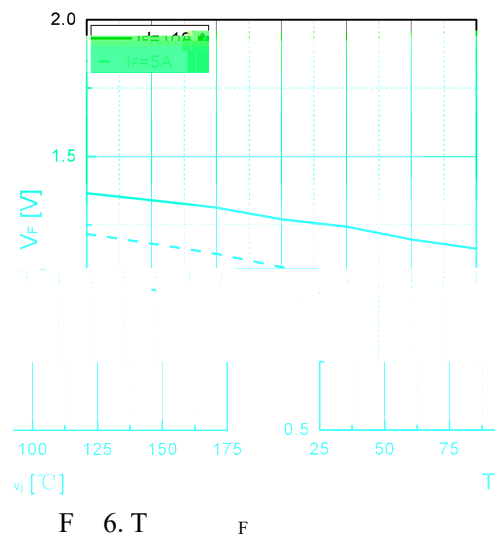
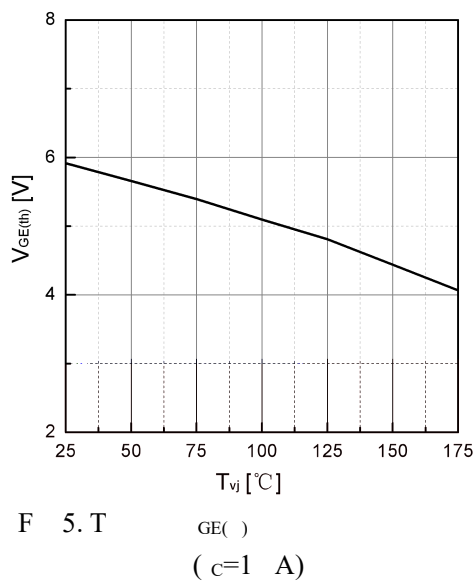
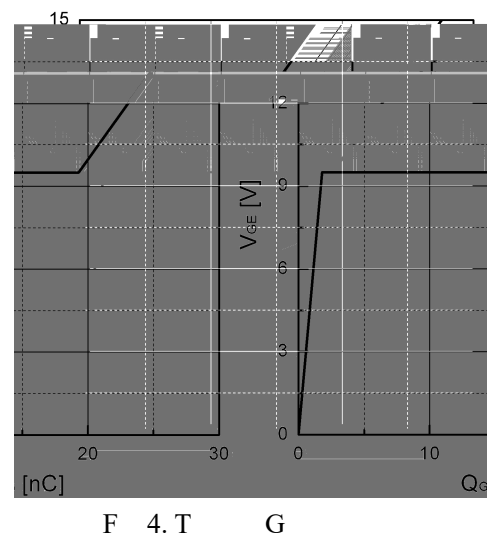
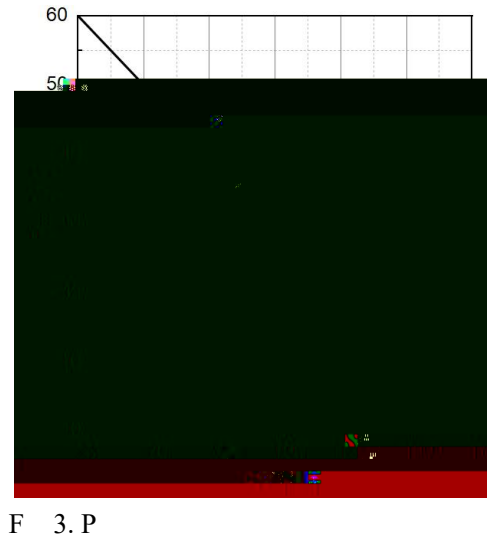
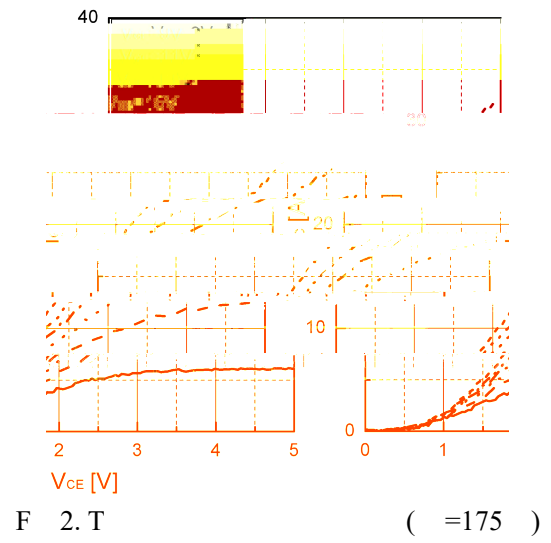
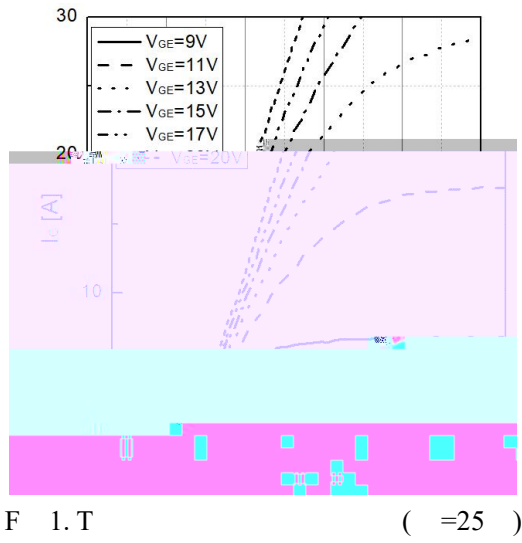
S

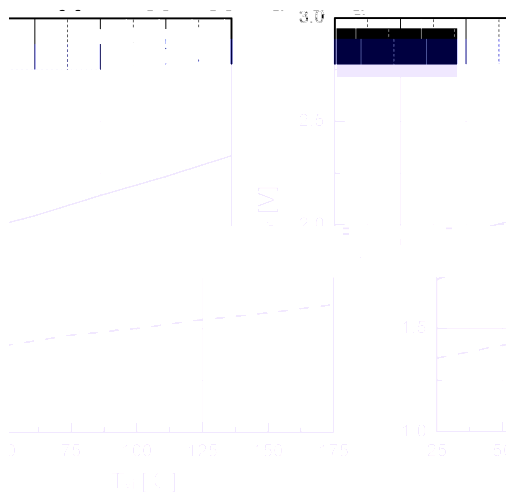
()	T -	$C_C=400V$ $G_E=0/15V$ $C=10A$ $G=10\Omega$ I	-	12	-	
	R		-	11	-	
()	T -		-	74	-	
	F		-	71	-	
	T -		-	0.18	-	J
	T -		-	0.17	-	J
	T		-	0.35	-	J
()	T -	$C_C=400V$ $G_E=0/15V$ $C=10A$ $G=10\Omega$ I =175	-	11	-	
	R		-	13	-	
()	T -		-	114	-	
	F		-	87	-	
	T -		-	0.22	-	J
	T -		-	0.27	-	J
	T		-	0.49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



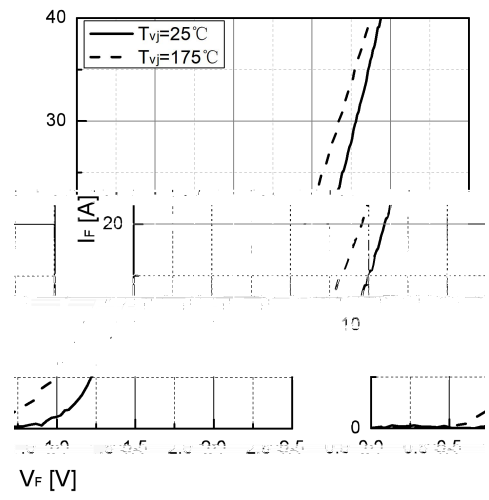
(=25)

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

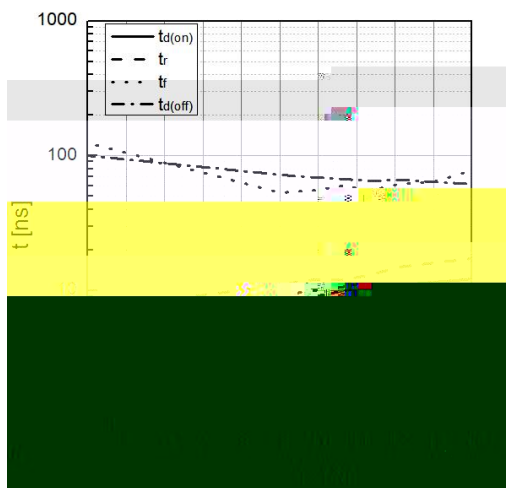




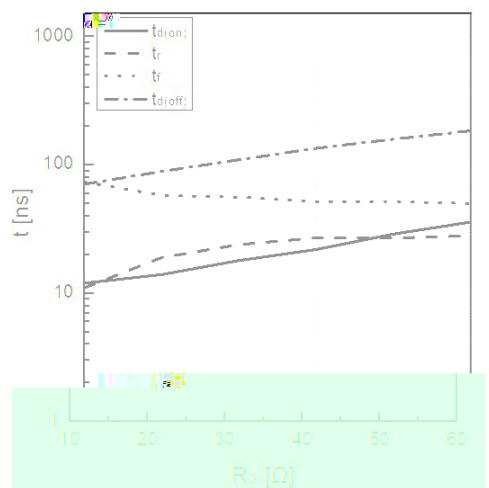
F 7. T CE



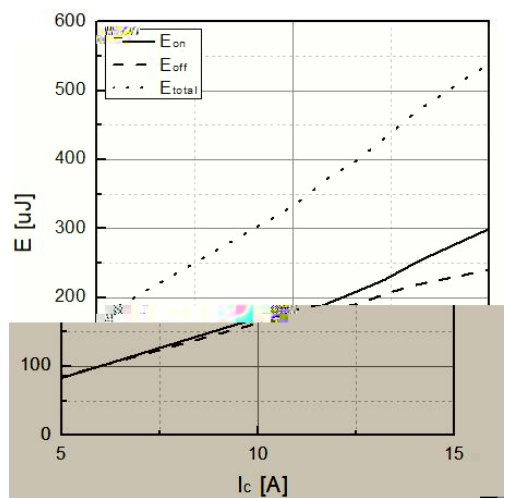
F 8. T F F



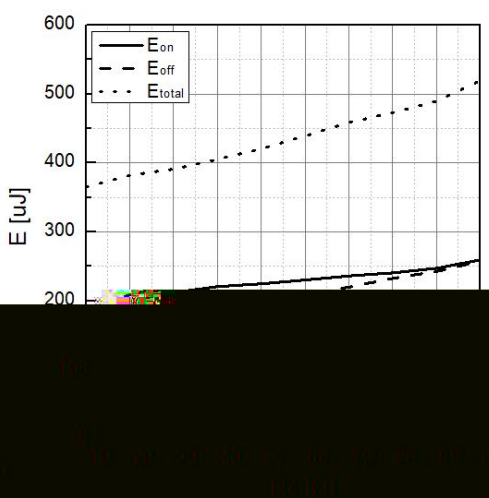
F 9. T C



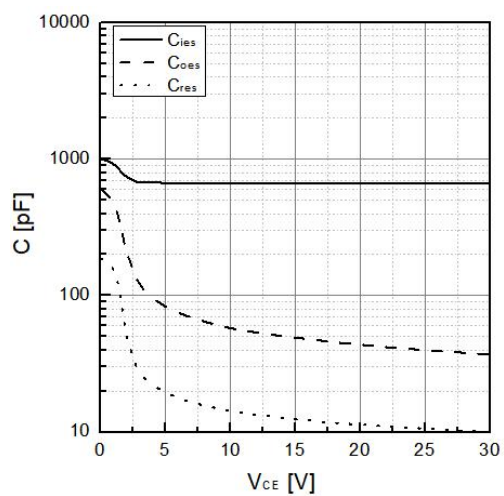
F 10. T G



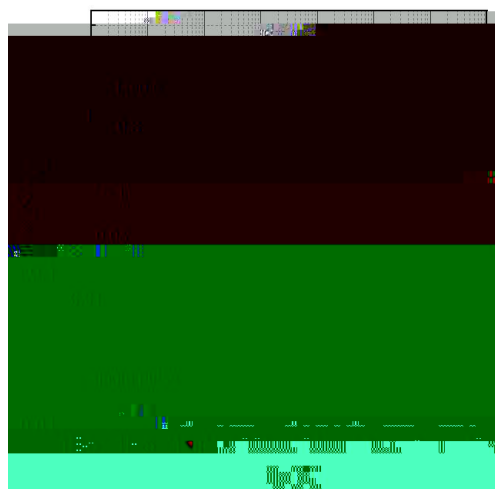
F 11. T C



F 12. T G



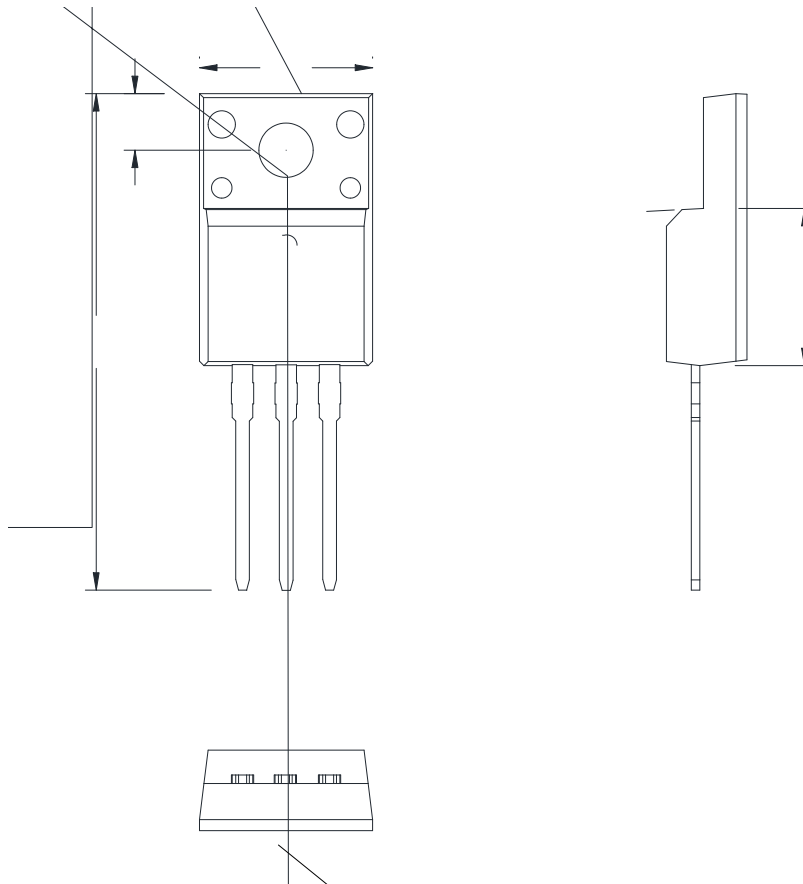
F 13. T CE
 (=1M , $V_{GE}=0V$)



F 14. T , IGBT



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 °	-



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