

650V 30A Trench and Field Stop IGBT

JJT30N65UK

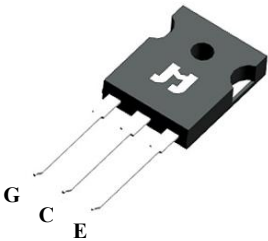
K :

- $V_{CE}=650$
- $I_C=30A@T_C=100$
- $V_{CE()}=1.7$

-247

F :

- -
- E



B :

- H
- H
- H

A :

- FC
-

	M		M
JJ 30 65 K	3065 K	-247	



V_{CE}	C -	650	
V_{GE}		20	
I_C		60	A
	($T_C=100$)	30	A
I_{CM}	, t T	120	A
I_F	D ($T_C=100$)	30	A
I_{FM}	D , t T	120	A
P	($T_C=25$)	125	
	($T_C=100$)	63	
T		-40 +175	
T		-55 +150	

. M .

R (-) , IGB □



					M .	.	M .
BV_{CE}	C	-	$V_{GE}=0$, $I_C=250$ A		650	-	-
I_{CE}	C	-	$V_{CE}=650$, $V_{GE}=0$		-	-	50 A
I_{GE}	G	,					



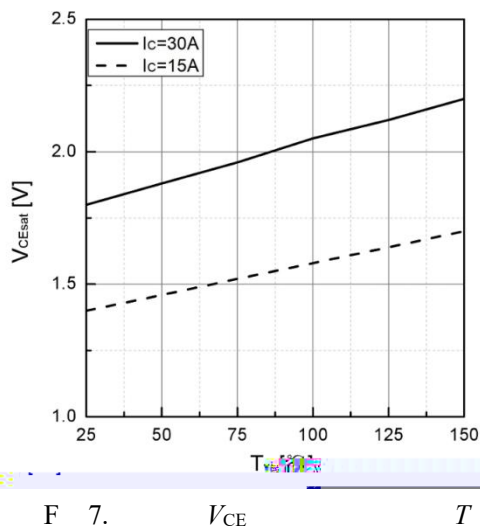
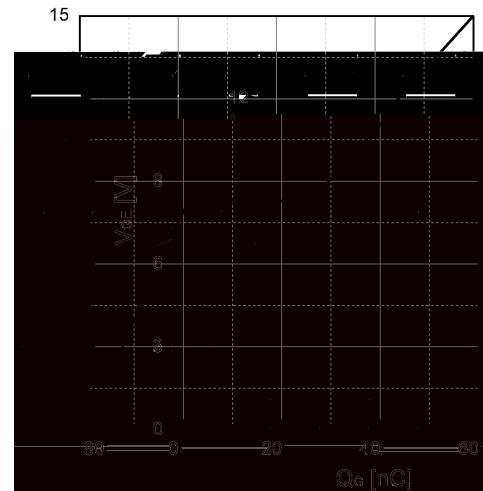
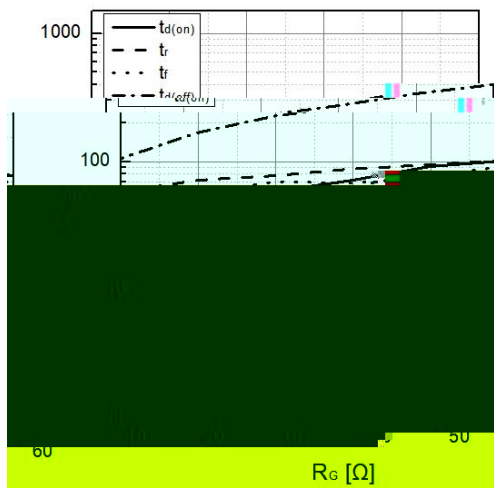
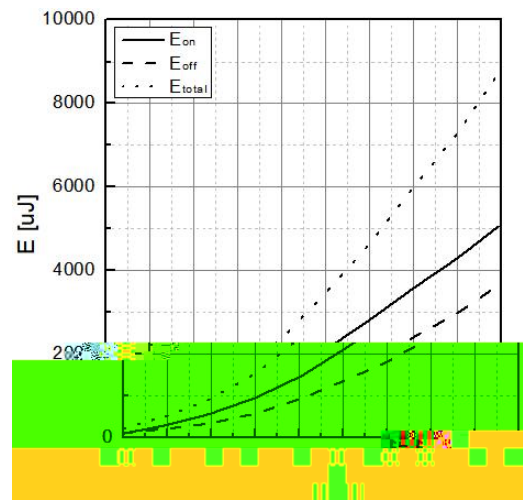
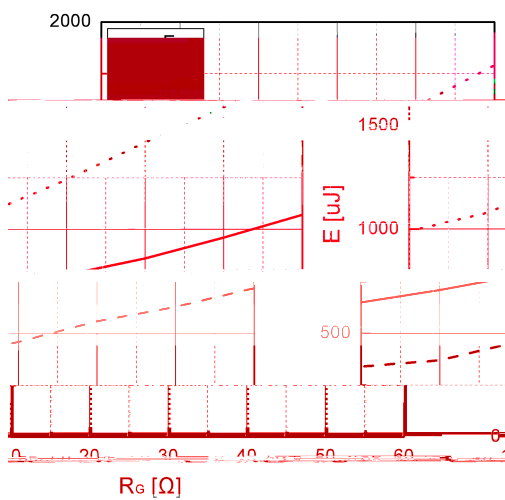
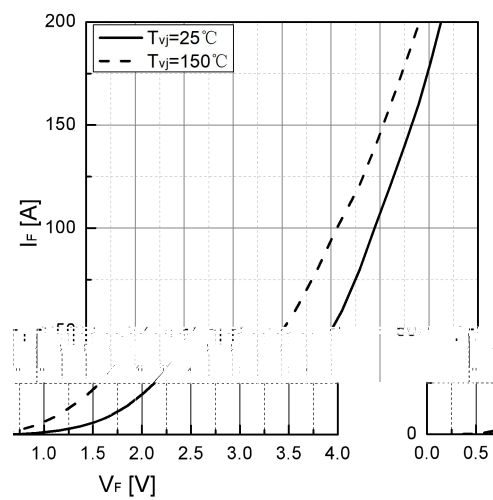
			M .	.	M .	
$t ()$	-	$V_{CC}=400$ $V_{GE}=0/15$ $I_C=30A$ $R_G=10\Omega$ I	-	29	-	
t			-	39	-	
$t ()$	-		-	110	-	
t	F		-	25	-	
E	-		-	0.6	-	J
E	-		-	0.3	-	J
E			-	0.9	-	J
$t ()$	-	$V_{CC}=400$ $V_{GE}=0/15$ $I_C=30A$ $R_G=10\Omega$ I $T =150$	-	29	-	
t			-	40	-	
$t ()$	-		-	120	-	
t	F		-	34	-	
E	-		-	0.8	-	J
E	-		-	0.5	-	J
E			-	1.3	-	J

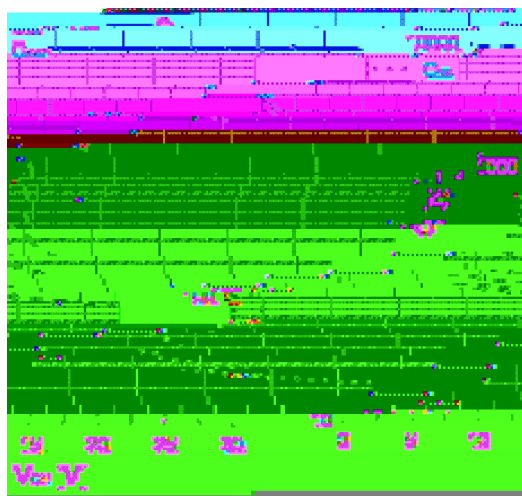


E **D** ($T = 25$)

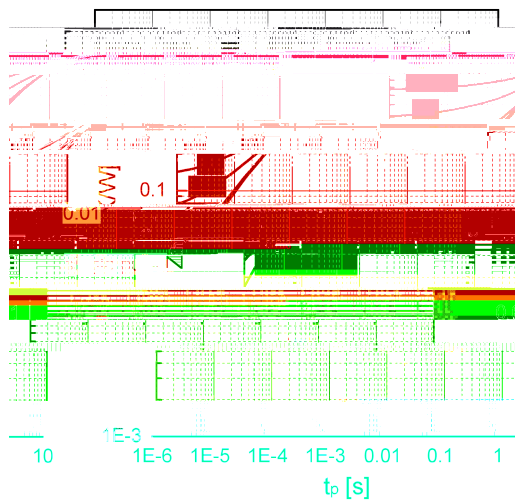
			M .	.	M .	
V_F	D	$I_F = 30A$	-	2.2	-	
		$I_F = 30A, T = 150$	-	1.7	-	
t	D	$V = 400$ $I_F = 30A$ $i_F / t = -1000A/$	-	55	-	
I	D		-	17	-	A
Q	D		-	560	-	C
t	D	$V = 400$ $I_F = 30A$ $i_F / t = -1000A/$ $T = 150$	-	97	-	
I	D		-	25	-	A
Q	D		-	1460	-	C




F 7.
 V_{CE}
 T

F 8.
 Q_G

F 9.
 R_G

F 10.
 I_C

F 11.
 R_G

F 12.
 I_F
 V_F



F 13. V_{CE}
($I_D = 1\text{mA}$, $V_{GS} = 0\text{V}$)



F 14. I_{GB}



D						
	M		I		M	
	M		M	M		M
A	15.95	16.00	16.05	0.627	0.629	0.631
B	21.85	21.90	21.92	0.860	0.862	0.864
B1	5.15	5.20	5.25	0.202	0.204	0.206
B2	4.32	4.37	4.42	0.170	0.172	0.174
C	19.01	19.11	19.21	0.748	0.752	0.756
D	2.07	2.10	2.13	0.081	0.082	0.083
E	3.07	3.10	3.13	0.120	0.122	0.123
F	1.15	1.20	1.25	0.045	0.047	0.049
G	5.45 EF				0.214 EF	
G1	5.85	5.90	5.95	0.230	0.232	0.234
G2	-	0.60	-	-	0.023	-
G3	1.76	1.81	1.86	0.069	0.071	0.073
H	4.95	5.00	5.05	0.194	0.196	0.198
J	1.44	1.49	1.54	0.056	0.058	0.060
K	2.30	2.35	2.40	0.090	0.092	0.094
L	0.59	0.60				



D		C
2024-10-30	1.0	.

D

LEA E E - J J J M C ., L ("JJM") , ,

/ . I

JJM , JJM'

JJM'

JJM

JJM'

. A JJM

JJM

JJM

J J J M C ., L .

. 2024 JJM - A