

650V 30A Trench and Field Stop IGBT

JJT30N65SS

:

- $V_{CE}=650V$
- $I_C=30A@T_C=100^{\circ}C$
- $V_{CE(sat)}=1.7V$

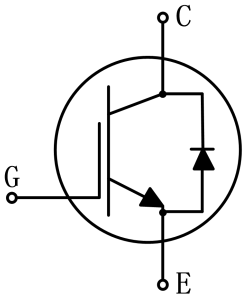
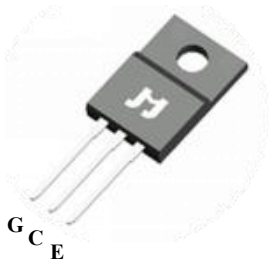
TO-220F

Features:

- High $V_{CE(sat)}$
- 10^5 β
- $P_{tot} = 10W$ $(T_C=25^{\circ}C)$
- High f_T
- ESD protection
- R_{DS(on)} HS

Applications:

- H
- M
- G



T	M	P	P
JJT30N65SS	T3065SS	TO-220F	T



E IGB (=25) S

			.	.	.	
CES	C -	$V_{GE}=0V, I_C=250 A$	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}(\)$	G -	$V_{GE}=V_{CE}, I_C=1 A$	5.2	5.7	6.2	V
$V_{CE}(\)$	C -	$V_{GE}=15V, I_C=30A$	-	1.7	-	V
		$V_{GE}=15V, I_C=30A, \beta=175$	-	2.2	-	V

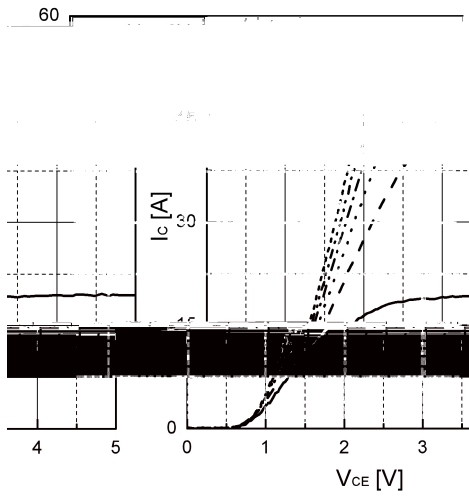
D

			.	.	.	
	I	$V_{CE}=30V$ $V_{GE}=0V$ $\tau=1MH$	-	1978	-	F
	O		-	100	-	F
	R		-	23	-	F
	T	$V_{CC}=520V$ $V_{GE}=15V$ $I_C=30A$	-	103	-	C

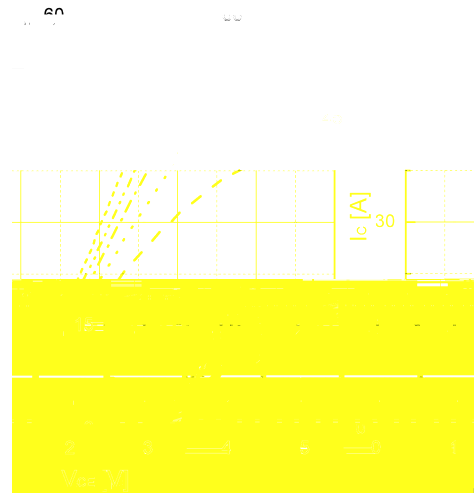


E D (=25)

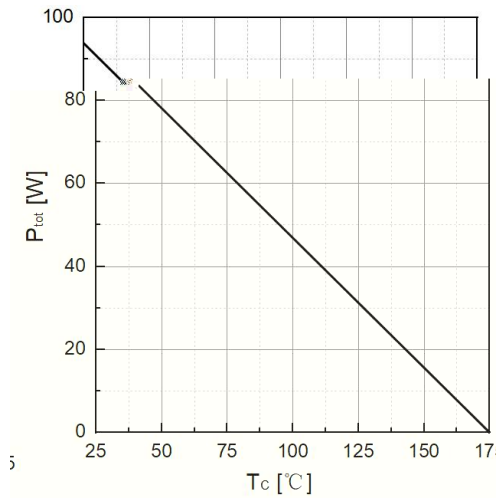
			.	.	.	
F	D	F=30A	-	1.7	-	V
		F=30A, =175	-	1.4	-	V
	D	R=400V F=30A F/ =-550A/	-	105	-	
	D		-	16	-	A
	D		-	876	-	C
	D	R=400V F=30A F/ =-550A/ =175	-	171	-	
	D		-	26	-	A
	D		-	2650	-	C



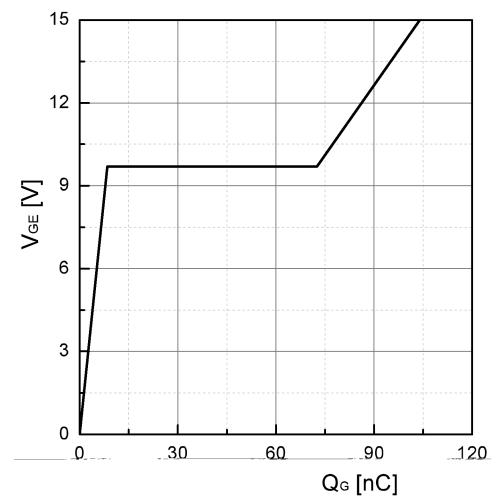
F 1. T ($T_j = 25^\circ\text{C}$)



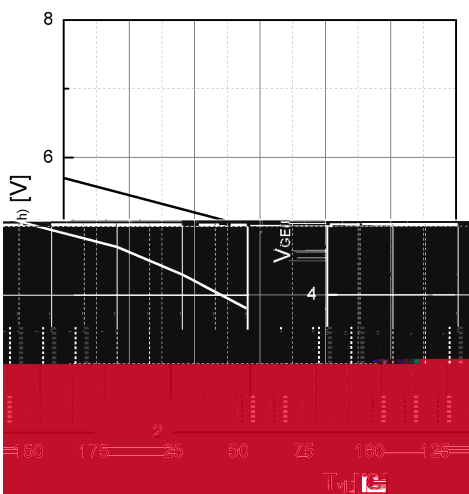
F 2. T ($T_j = 175^\circ\text{C}$)



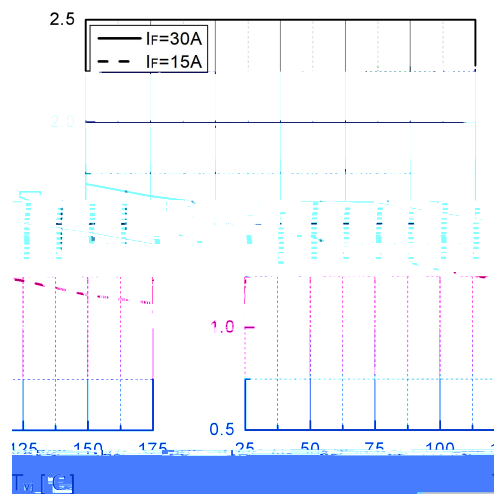
F 3. P



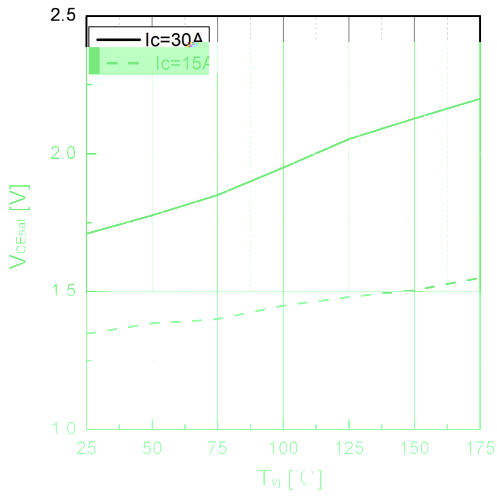
F 4. T G



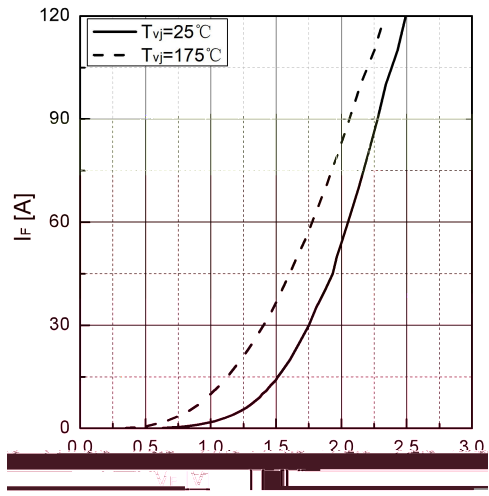
F 5. T $V_{GS}(\text{)}$
($c = 1 \text{ A}$)



F 6. T F

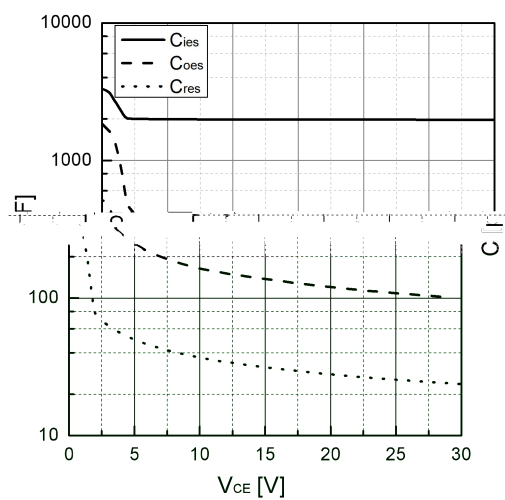


F 7. T CE



Δ C E

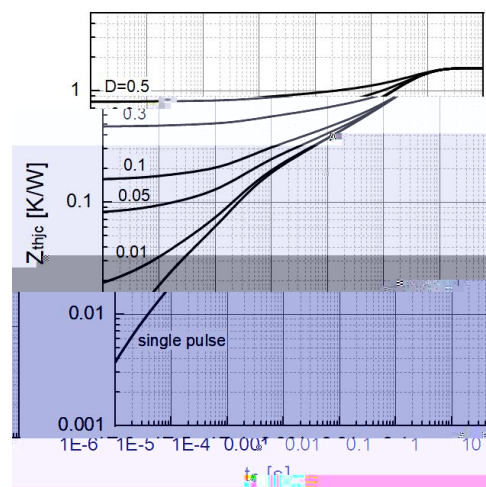




F 13. T

(=1M , $G_E=0V$)

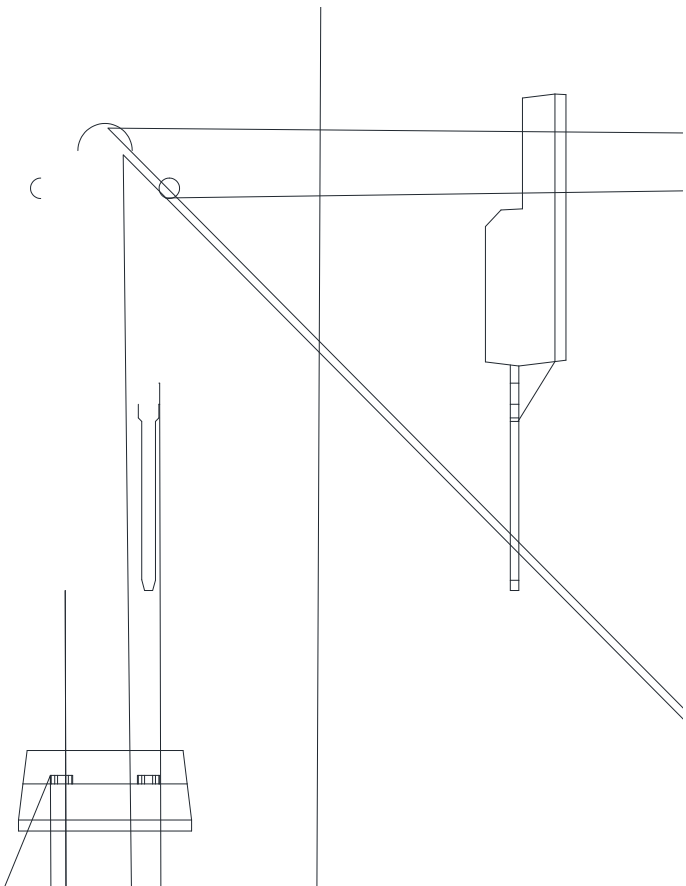
CE



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
2023-12-27	R 1.0	R
2025-03-09	R 1.1	C
2026-06-24	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
. 2026 JJM - A