

650V 20A Trench and Field Stop IGBT

JJT20N65SC

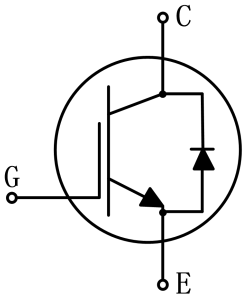
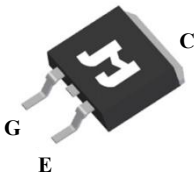
K :

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- $V_{CE}=650V$
- $I_C=20A@T_C=100^{\circ}C$
- $V_{CE(sat)}=1.6V$

F :

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



A :

- H
- M
- G

T	M	P	P
JJT20N65SC	T2065SC	TO-263	T



M

CES	C -	650	V
GES	G -	20	V
C	C (c=25)	40	A
	C (c=100)	20	A
CM	P ,	80	A
F	D (c=100)	20	A
FM	D ,	80	A
	S	10	
	P (c=25)	188	
	P (c=100)	94	
	O	-40 +175	
	S	-55 +150	

		.	M .	
(-)	T , IGBT	-	0.8	K/
(-)	T , D	-	1.1	K/
(-)	T ,	-	40	K/

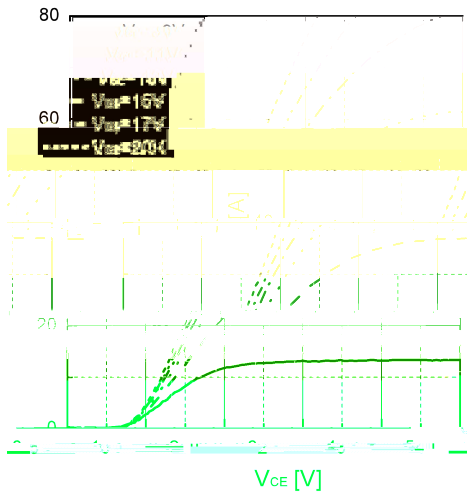
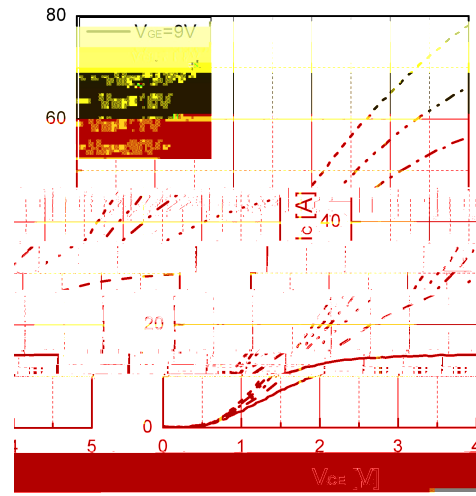
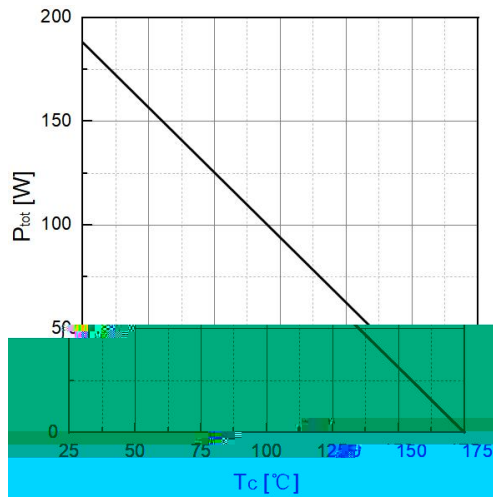


C_{ES} C - $V_{GE}=0V, I_C=250\text{ A}$ M . . M .
6

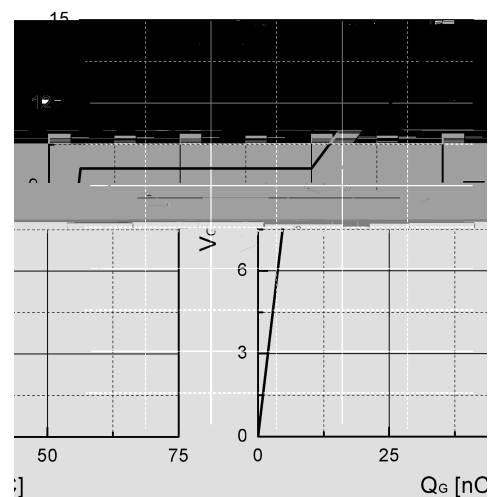


E D (=25)

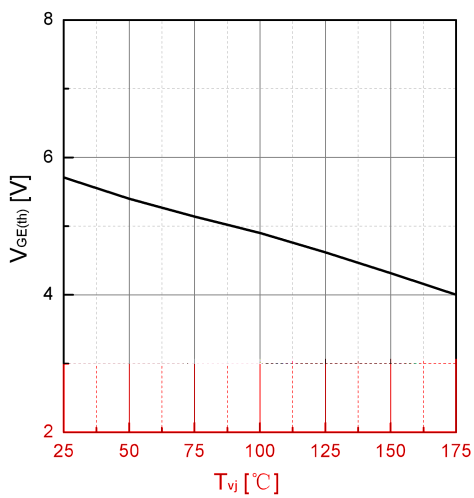
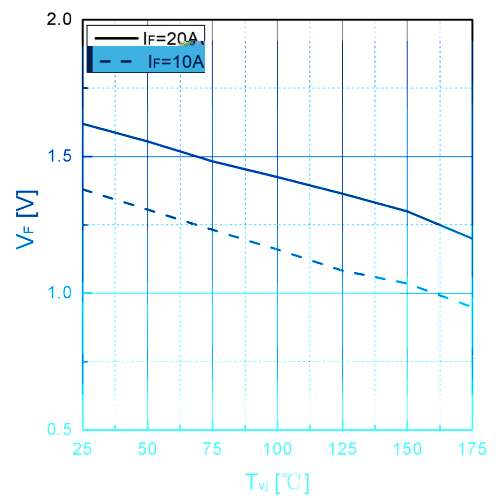
			M .	.	M .	
F	D	$F=20A$	-	1.6	-	V
		$F=20A, =175$	-	1.2	-	V
	D	$R=400V$ $F=20A$ $F/ =-500A/$	-	62	-	
	D		-	12	-	A
	D		-	472	-	C
	D	$R=400V$ $F=20A$ $F/ =-500A/$ $=175$	-	90	-	
	D		-	19	-	A
	D		-	1130	-	C


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

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


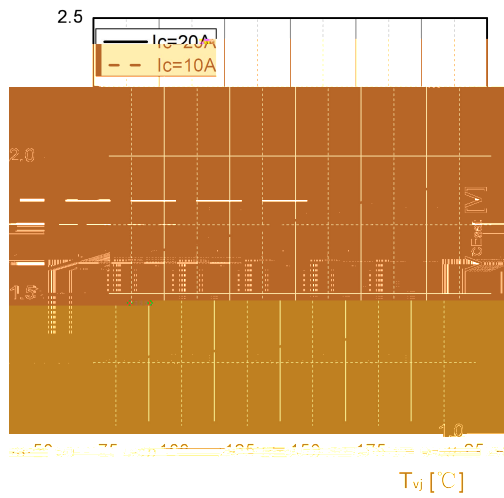
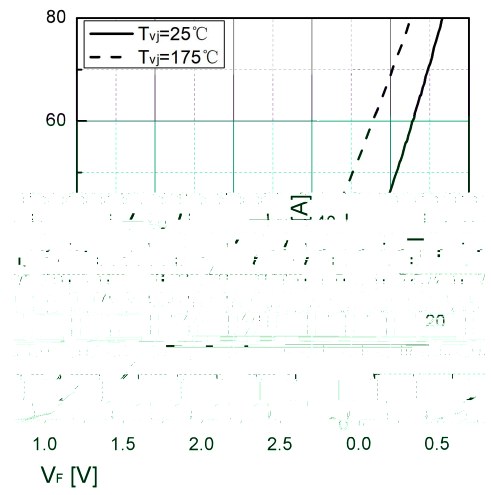
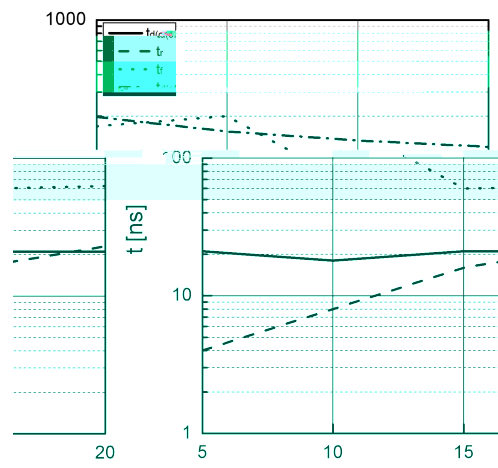
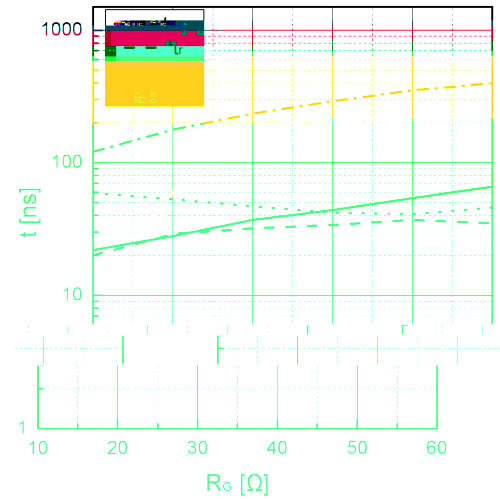
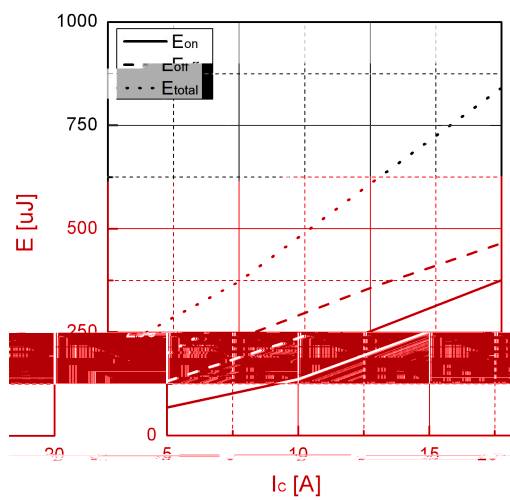
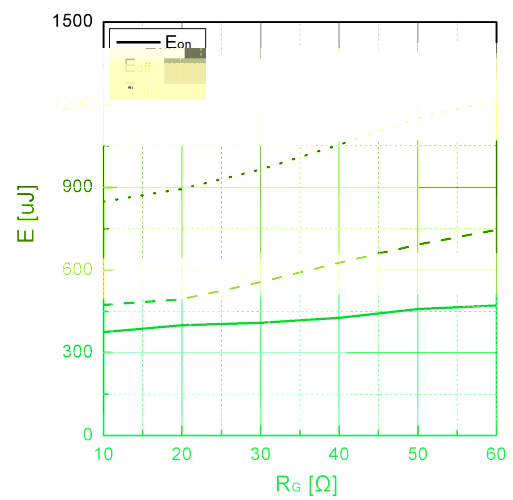
F 3. P

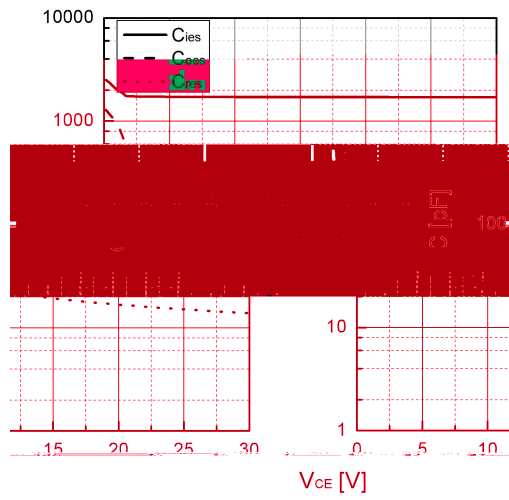


F 4. T G

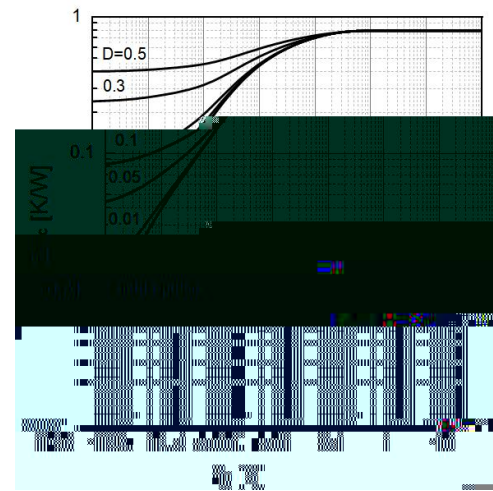

F 5. T $V_{GE(th)}$ ($I_C = 1\text{ A}$)


F 6. T F


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

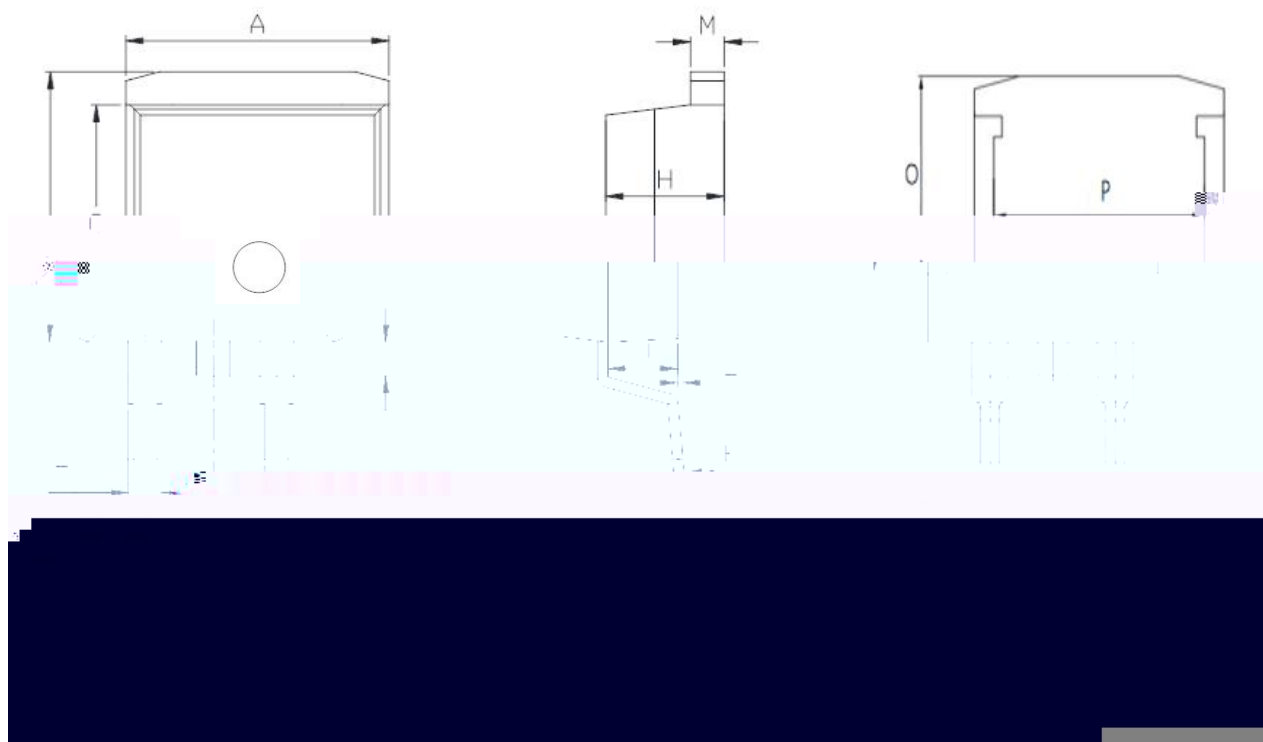


F 13.T CE
(=1M Ω , $V_{GE}=0V$)



F 14. T , IGBT

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R .	D					
	M			I		
	M .	T .	M .	M .	T .	M .
A	9.90	-	10.20	0.390	-	0.402
B	14.70	-	15.80	0.579	-	0.622
C	8.8	-	9.4	0.346	-	0.370
D	-	2.54	-	-	0.100	-
E	1.37	-	1.57	0.054	-	0.062
F	0.75	-	0.85	0.029	-	0.033
G	-	-	1.75	-	-	0.069
H	4.30	-	4.70	0.169	-	0.185
J	2.30	-	2.70	0.091	-	0.106
K	0.38	-	0.55	0.015	-	0.022
L	0	0.15	0.25	0	0.006	0.010
M	1.25	-	1.35	0.049	-	0.053
O	7.4	7.65	7.9	0.291	0.301	0.311
P	8.3	8.6	8.9	0.327	0.339	0.350
L2	2.20	2.35	2.50	0.087	0.093	0.098



D	R	C
2024-05-20	R 1.1	U
2024-06-21	R 1.2	U
2025-03-06	R 1.3	C
2026-03-12	R 1.4	U POD
2026-06-23	R 1.5	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

. 2025 JJM - A