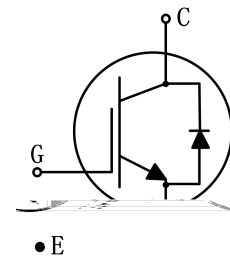
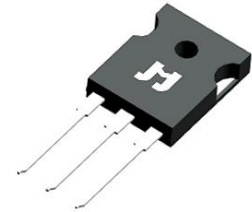


- $V_{CE} = 650V$
- $I_C = 50A @ T_C = 100^\circ C$
- $V_{CE(sat)} = 1.65V$

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CES	C -	650	V
GES	G -	20	V
C	C (c=25)	100	A
	C (c=100)	50	A
CM	P ,	200	A
F	D (c=100)	50	A
FM	D ,	200	A
	S	10	
	P (c=25)	333	
	P (c=100)	167	
	O	-40 +175	
	S	-55 +150	

(-)	T , IGBT	-	0.45	K/
(-)	T , D	-	0.60	K/
(-)	T ,	-	40	K/



($\theta = 25^\circ$)

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
GE()	G -	$V_{GE}=V_{CE}, \beta_C=1$	5.3	5.7	6.1	V
CE()	C -	$V_{GE}=15\text{ V}, I_C=50\text{ A}$	-	1.65	-	V
		$V_{GE}=15V, I_C=50\text{ A}, \theta=175^\circ$	-	2.10	-	V

D

	I	$V_{CE}=30V$ $V_{GE}=0V$ $\theta=1\text{ MH}$	-	2890	-	F
	O		-	170	-	F
	R		-	34	-	F
	T	$V_{CC}=520V$ $V_{GE}=15V$ $I_C=50\text{ A}$	-	185	-	C



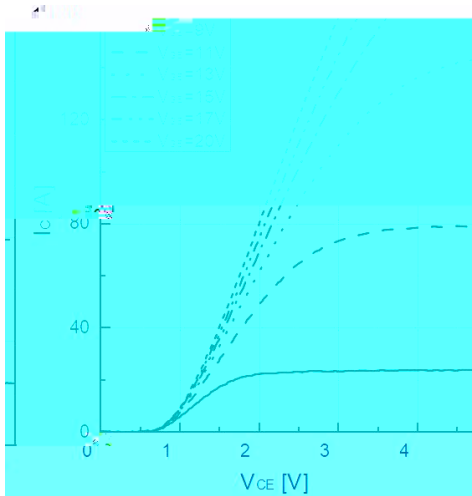
S

()	T -	$CC=400V$ $GE=0/15V$ $C=50A$ $G=10\Omega$ I	-	36	-	
	R		-	105	-	
()	T -		-	234	-	
	F		-	39	-	
	T -		-	3.0	-	J
	T -		-	1.2	-	J
	T		-	4.2	-	J
()	T -	$CC=400V$ $GE=0/15V$ $C=50A$ $G=10\Omega$ I $=175$	-	37	-	
	R		-	109	-	
()	T -		-	256	-	
	F		-	49	-	
	T -		-	3.3	-	J
	T -		-	1.5	-	J
	T		-	4.8	-	J

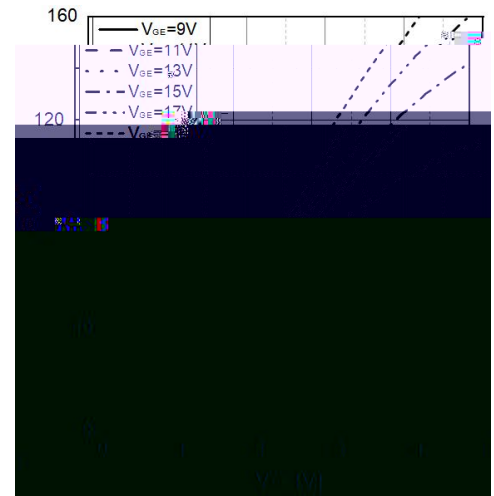


(=25)

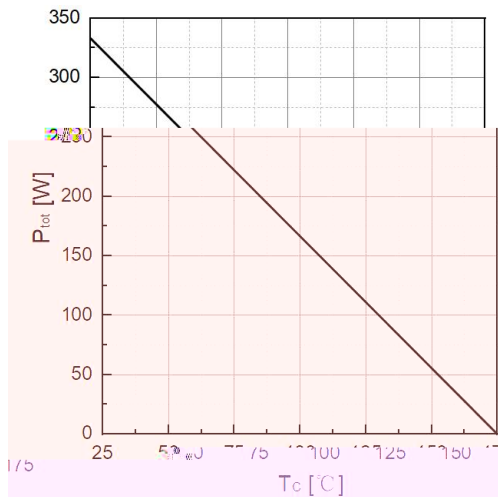
F	D	$F=50A$	-	1.60	-	V
		$F=50A, =175$	-	1.35	-	V
	D	$R=400V$ $F=50A$ $F/ =-400A/$	-	106	-	
	D		-	8	-	A
	D		-	500	-	C
	D	$R=400V$ $F=50A$ $F/ =-400A/$ $=175$	-	161	-	
	D		-	20	-	A
	D		-	1853	-	C



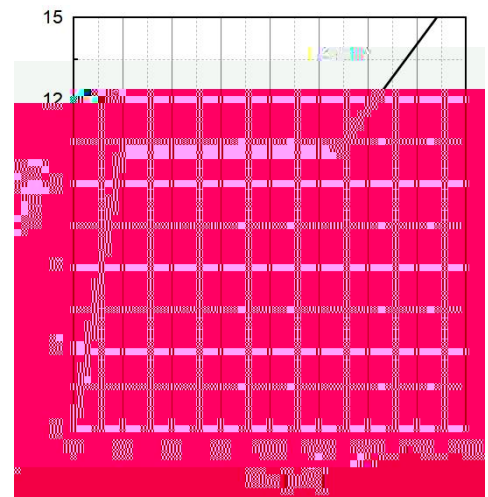
F 1. T ($T_j = 25^\circ\text{C}$)



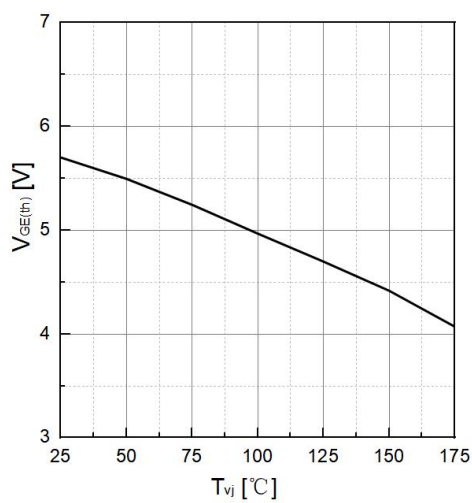
F 2. T ($T_j = 175^\circ\text{C}$)



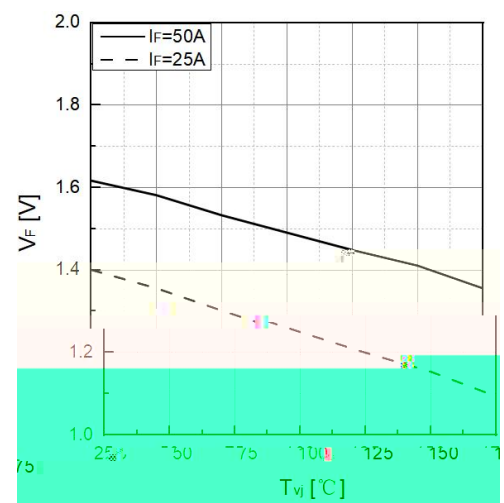
F 3. P



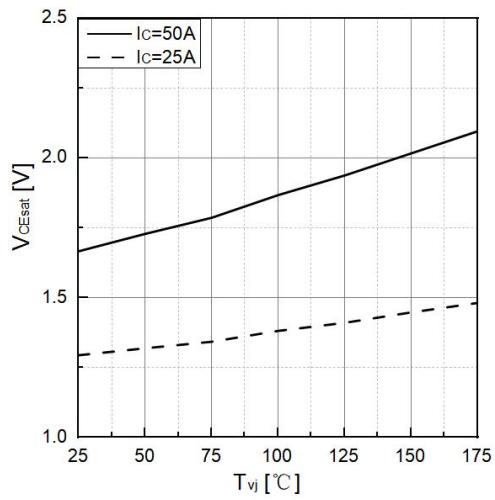
F 4. T G



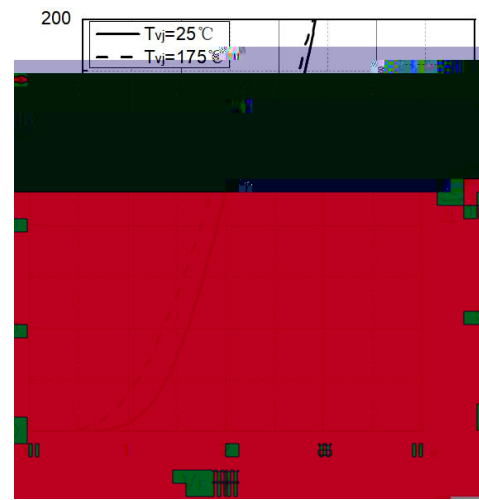
F 5. T $V_{gs(th)}$ ()
($I_f = 1\text{ A}$)



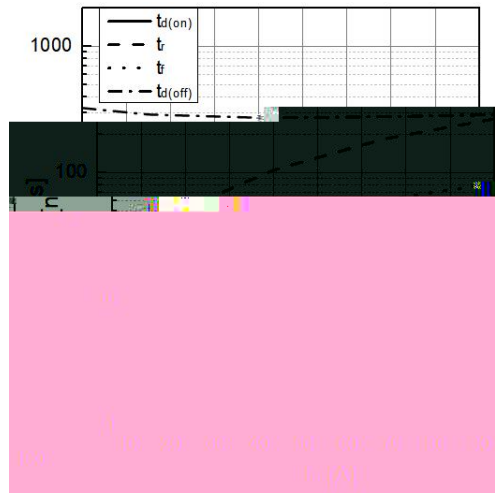
F 6. T F



F 7. T CE



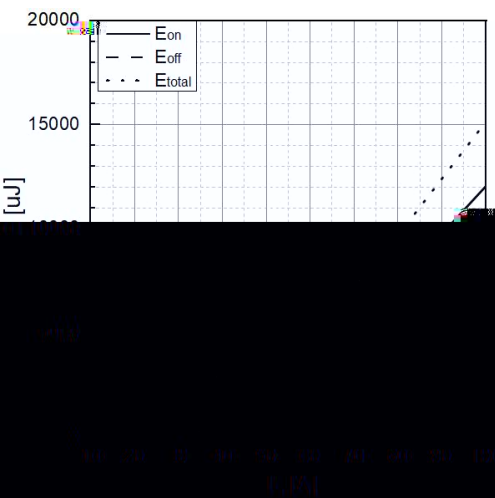
F 8. T F F



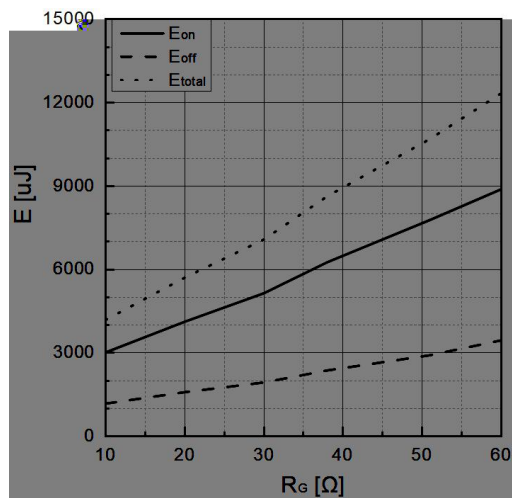
F 9. T C



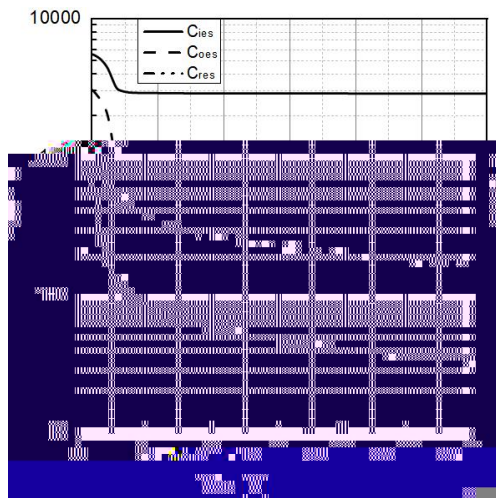
F 10. T G



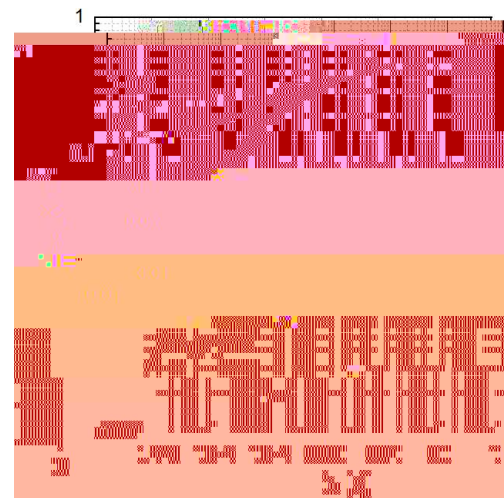
F 11. T C



F 12. T G



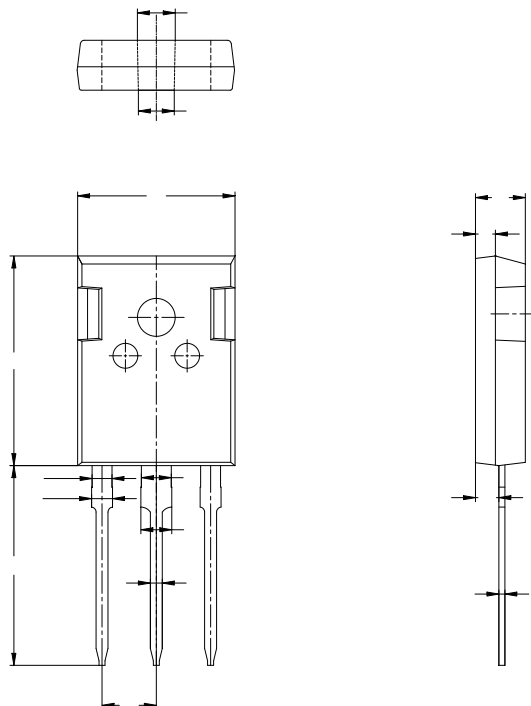
F 13. T
(=1M , $G_E=0V$) CE



F 14. T IGBT



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R .	D					
	M			I		
	M .	T .	M .	M .	T .	M .
A	15.50	15.80	16.10	0.610	0.622	0.634
B	20.80	21.00	21.20	0.819	0.827	0.835
C	19.70	20.00	20.30	0.776	0.787	0.799
D	1.80	2.00	2.20	0.071	0.079	0.087
E	1.90	2.10	2.30	0.075	0.083	0.091
F	1.00	1.20	1.40	0.039	0.047	0.055
G	5.25	-	5.65	0.207	-	0.222
H	4.80	5.00	5.20	0.189	0.197	0.205
J	1.90	2.00	2.10	0.075	0.079	0.083
K	2.20	2.35	2.50	0.087	0.093	0.098
L	0.41	0.60	0.79	0.016	0.024	0.031
M	2.80	3.00	3.20	0.110	0.118	0.126
N	2.90	3.10	3.30	0.114	0.122	0.130



D	R	C
2025-04-21	R 1.0	R .
2025-12-10	R 1.1	U C
2026-06-25	R 1.2	U

PLEASE NOTE - J J J M C ., L ("JJM") , ,
/ . I
JJM , JJM' . T
JJM' JJM
. P JJM
, , JJM' . A JJM
. T JJM
J J J M C ., L . T
. 2026 JJM - A