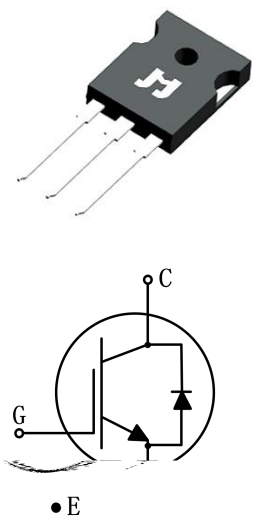


- $C_E=1200$
- $C=25A@C=100$
- $C_E()=2.0$

- -
- H
- $C_E()$
- F
- H

-
- I

-247

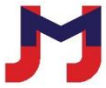


	M		M
JJ 25 120 E	25120 E	-247	



CE	C -	1200	
GE	G -	20	
C	C (c=25)	50	A
	C (c=100)	25	A
CM	,	100	A
F	D (c=100)	25	A
FM	D ,	100	A
	(c=25)	375	
	(c=100)	187	
		-40 +175	
		-55 +150	

(-) , IGB



($\beta = 25$)

B_{CE}	C -	$\beta_{GE}=0, I_C=250 \text{ A}$	1200	-	-	
β_{CE}	C -	$\beta_{CE}=1200, \beta_{GE}=0$	-	-	100	A
β_{GE}	G ,	$\beta_{GE}=20, \beta_{CE}=0$	-	-	100	A
	G ,	$\beta_{GE}=-20, \beta_{CE}=0$	-	-	-100	A
$\beta_{GE}(\text{)}$	G -	$\beta_{GE}=\beta_{CE}, \beta_C=1 \text{ A}$	5.3	5.8	6.8	
$\beta_{CE}(\text{)}$	C -	$\beta_{GE}=15, \beta_C=25 \text{ A}$	-	2.0	-	
		$\beta_{GE}=15, \beta_C=25 \text{ A}, \beta=175$	-	2.7	-	

D

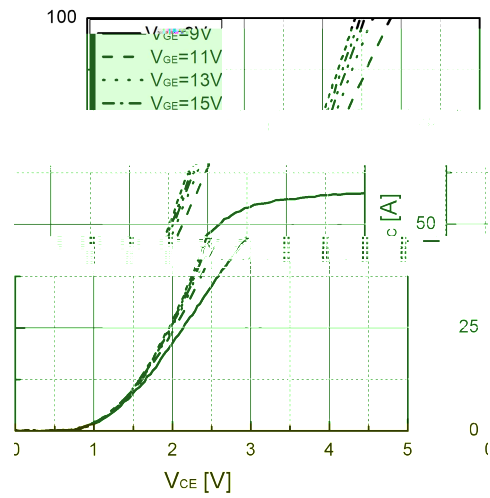
C	I	$\beta_{CE}=30$ $\beta_{GE}=0$ $\beta=1 \text{ MH}$	-	4569	-	F
C			-	60	-	F
C			-	26	-	F
		$\beta_{CC}=960$ $\beta=15$ $\beta_C=25 \text{ A}$	-	146	-	C



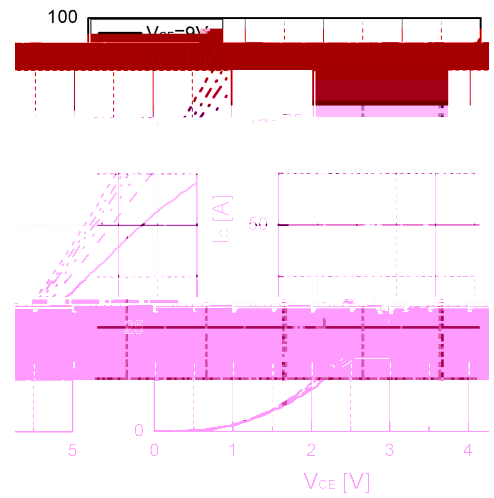
()	-	$c_c=600$ $G_E=0/15$ $c=25A$ $G=10\Omega$ I	-	40	-	
			-	36	-	
()	-		-	169	-	
	F		-	68	-	
	-		-	1.4	-	J
	-		-	0.8	-	J
			-	2.2	-	J
()	-	$c_c=600$ $G_E=0/15$ $c=25A$ $G=10\Omega$ I $=175$	-	36	-	
			-	31	-	
()	-		-	195	-	
	F		-	134	-	
	-		-	1.5	-	J
	-		-	1.1	-	J
			-	2.6	-	J



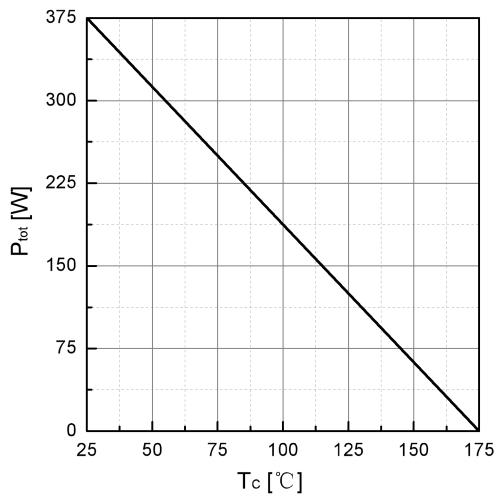
F	D	$F=25A$	-	2.6	-
		$F=25A, \quad =175$	-	2.3	-
	D	$=600$	-	120	-
	D	$F=25A$ $F/ \quad =-600A/$	-	0	



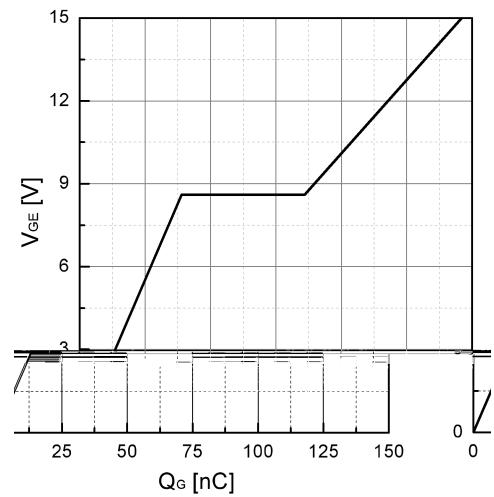
F 1. ($I_D = 25$)



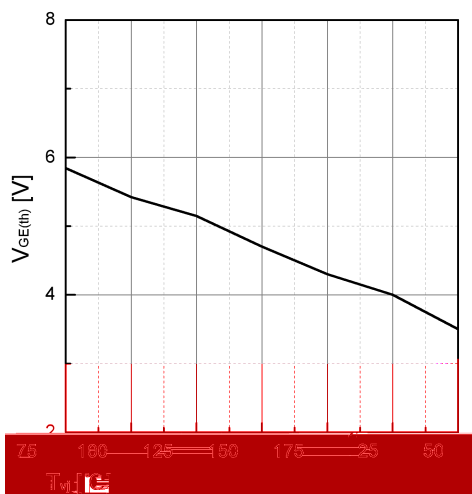
F 2. ($I_D = 175$)



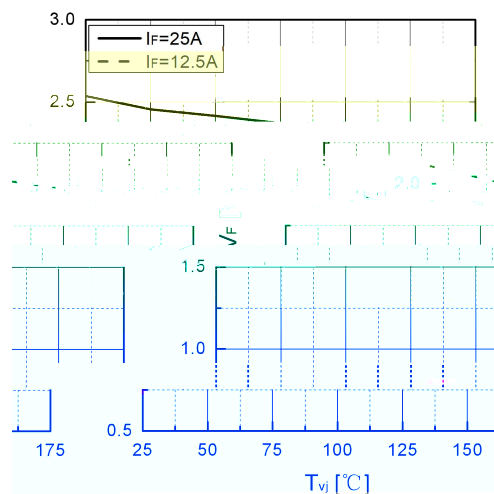
F 3. P_{tot}



F 4. V_{GS}



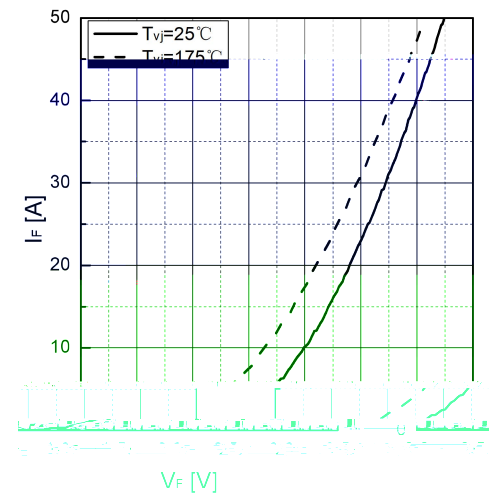
F 5. $V_{GS(th)}$
($I_D = 1$ A)



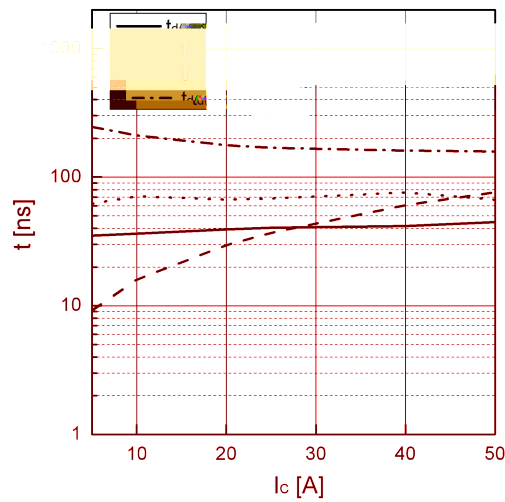
F 6. g_F



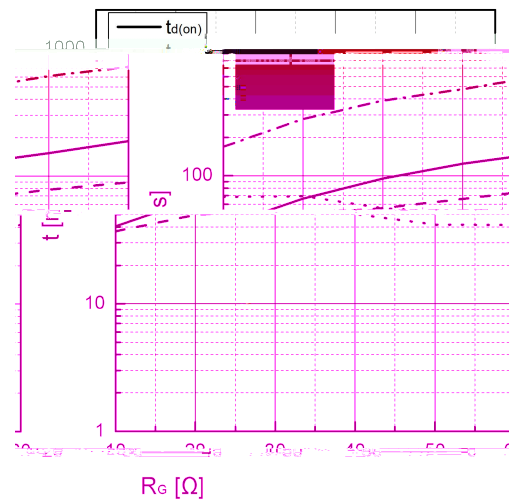
F 7. CE



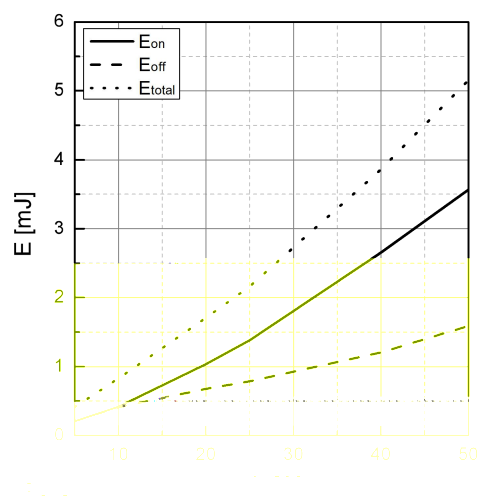
F 8. F F



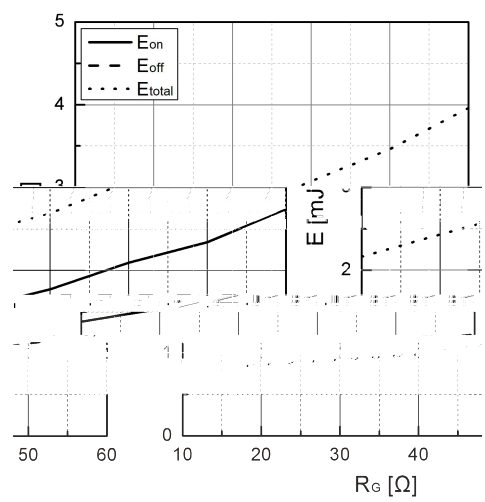
F 9. C



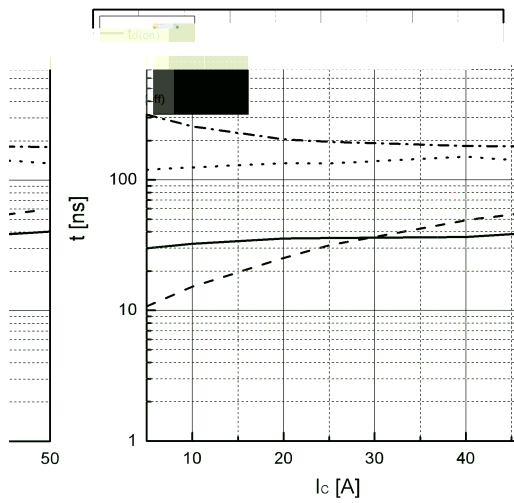
F 10. G



F 11. C

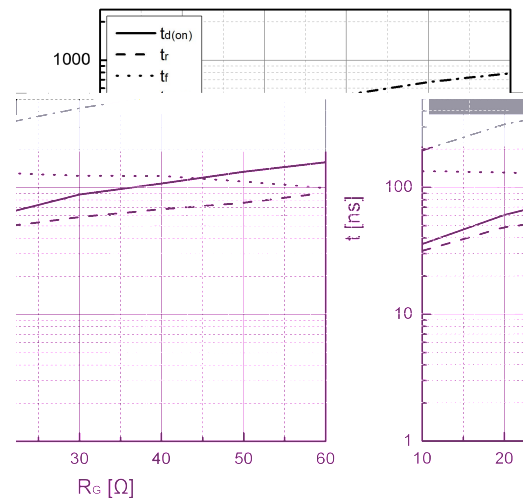


F 12. G



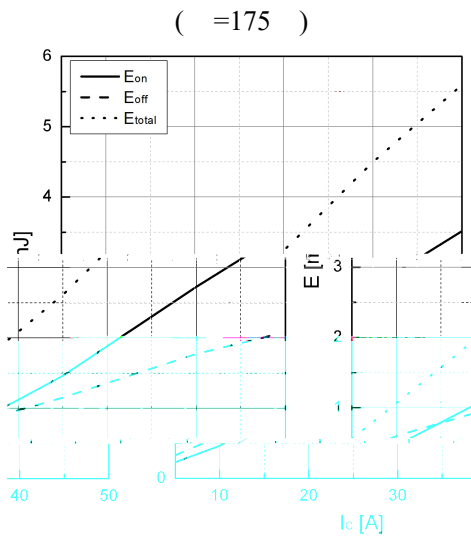
F 13.

c

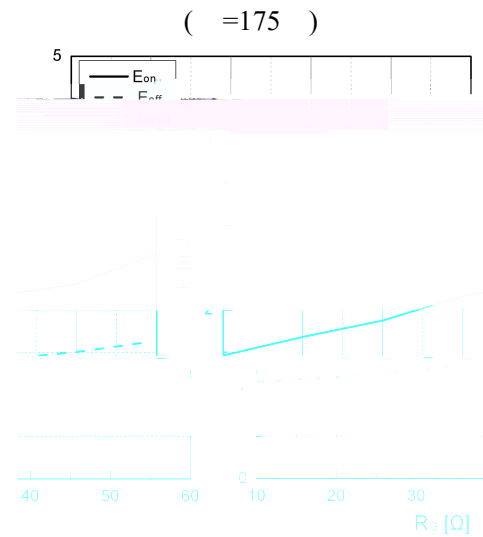


F 14.

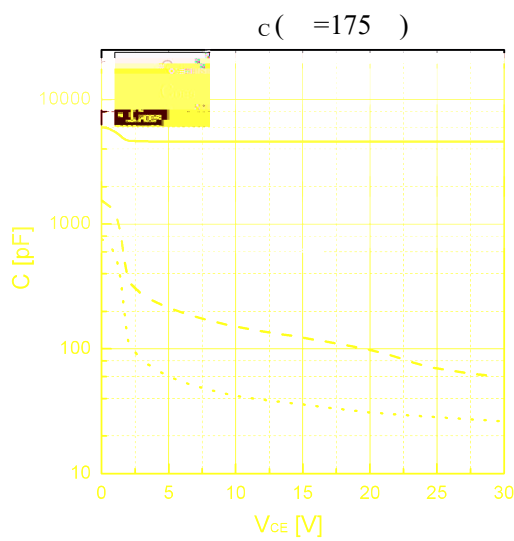
G



F 15.



F 16.

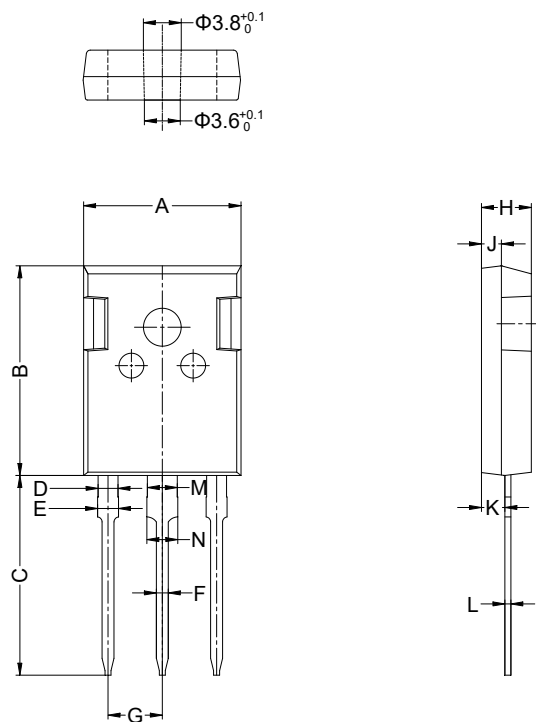


F 17.

CE

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

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	D					
	M			I		
	M .	.	M .	M .	.	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
	2.90	3.10	3.30	0.114	0.122	0.130



D		C
2024-07-12	1.0	
2024-09-23	1.1	

LEA E E - J J J M C ., L ("JJM") , ,
/
. I
,
JJM JJM'
JJM'
. JJM
, JJM' . A JJM
. JJM
J J J M C ., L .
. 2024 JJM - A