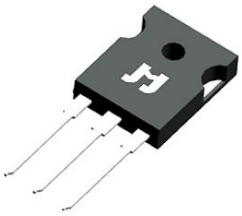
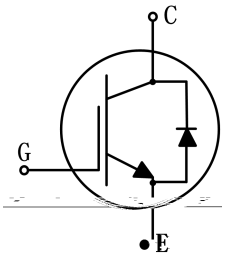
- $_{CE}$=1200
- $_{C}$=25A@ $_{C}$=100
- $_{CE(\ )}$=2.0

-247



-
H
CE ( ) .
F .
H



I

	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			K/
(-)	, D			K/
(-)	,			K/

(=25)

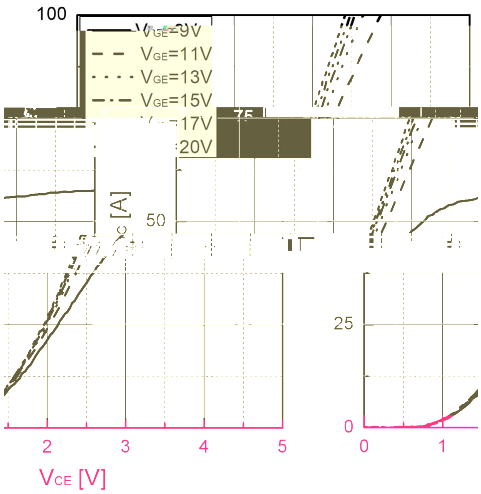
B_{CE}	C -	$_{GE}$=0 , I_C=250 A	1200	-	-	
$_{CE}$	C -	$_{CE}$=1200 , $_{GE}$=0	-	-	100	A
$_{GE}$	G ,	$_{GE}$=20 , $_{CE}$=0	-	-	100	A
	G ,	$_{GE}$=-20 , $_{CE}$=0	-	-	-100	A
$_{GE(\ )}$	G -	$_{GE}$= $_{CE}$, $_{C}$=1 A	5.3	5.8	6.8	
$_{CE(\ )}$	C -	$_{GE}$=15 , $_{C}$=25A	-	2.0	-	
		$_{GE}$=15 , $_{C}$=25A,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

D

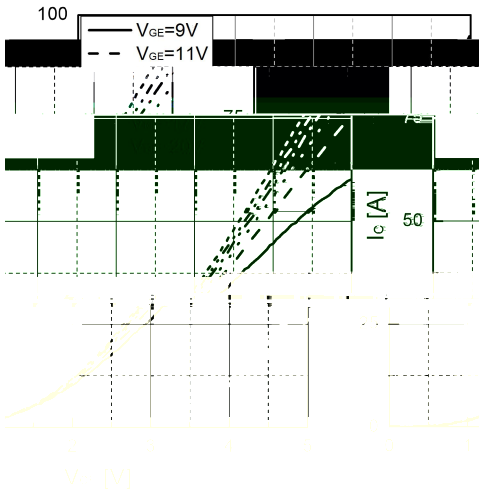
C	I	$_{CE}$=30 $_{GE}$=0 =1MH	-	4569	-	F
C			-	60	-	F
C			-	26	-	F
		$_{CC}$=960 =15 $_{C}$=25A	-	146	-	C

( )	-	$_{CC}$=600 $_{GE}$=0/15 $_{C}$=25A $_{G}$=10Ω I	-	40	-	
			-	36	-	
( )	-		-	169	-	
	F		-	68	-	
	-		-	1.4	-	J
	-		-	0.8	-	J
			-	2.2	-	J
( )	-	$_{CC}$=600 $_{GE}$=0/15 $_{C}$=25A $_{G}$=10Ω I =175	-	36	-	
			-	31	-	
( )	-		-	195	-	
	F		-	134	-	
	-		-	1.5	-	J
	-		-	1.1	-	J
			-	2.6	-	J

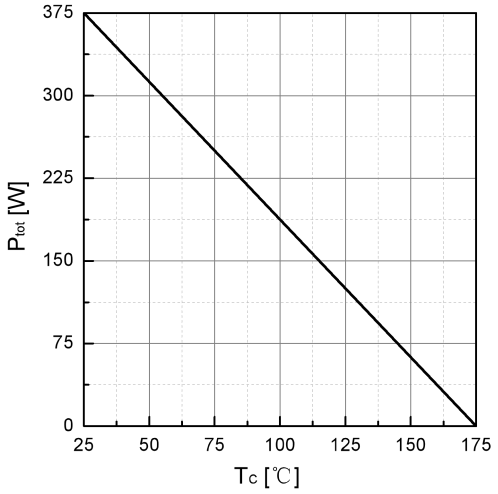
	$_F$=25A	-	2.6	-
$_F$ D				
	$_F$=25A, =175	-	2.3	-
D		-	120	-
	=600			
D	$_F$=25A	-		
	$_F$/ =-600A/			



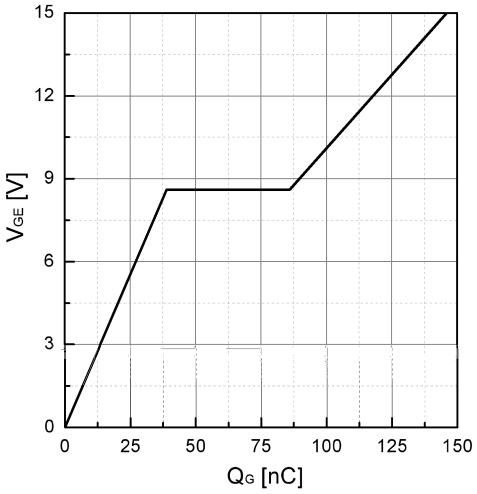
F 1. (=25)



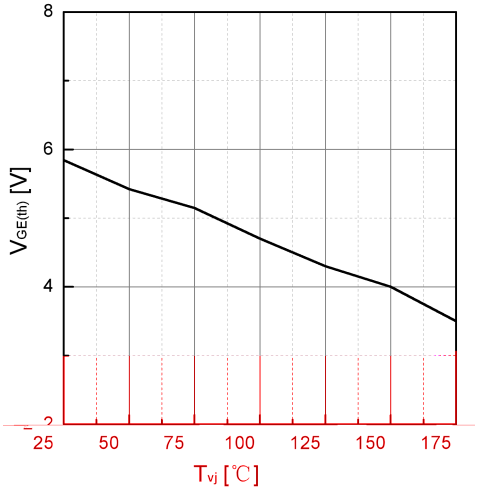
F 2. (=175)



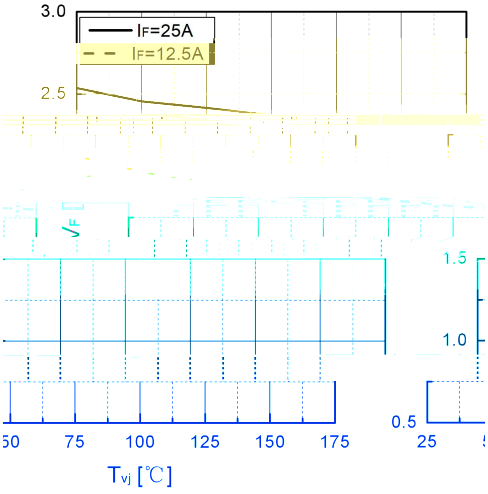
F 3. C



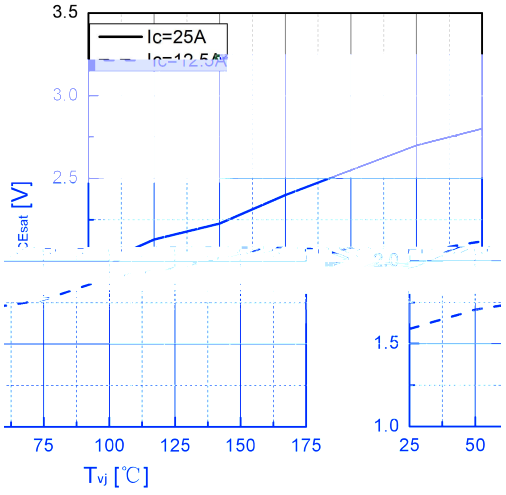
F 4. G



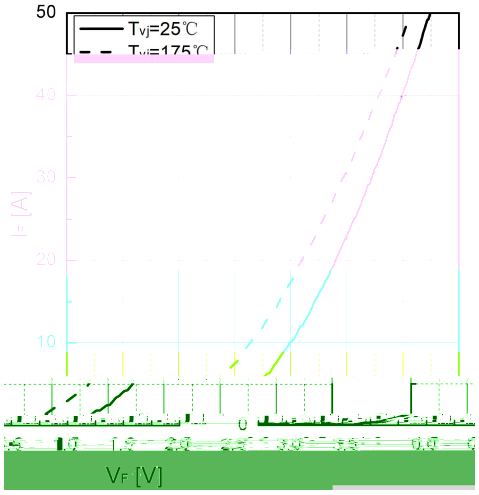
F 5. GE( )
(C=1 A)



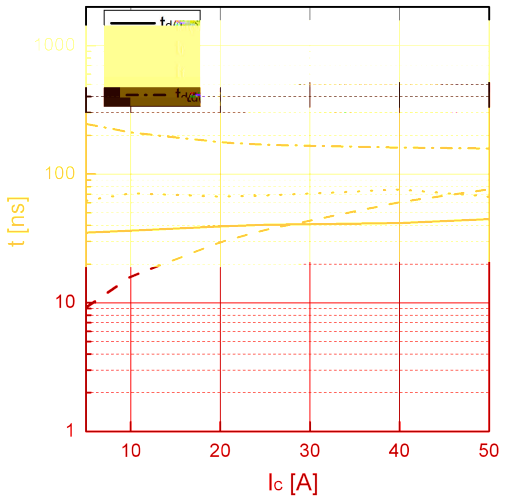
F 6. F



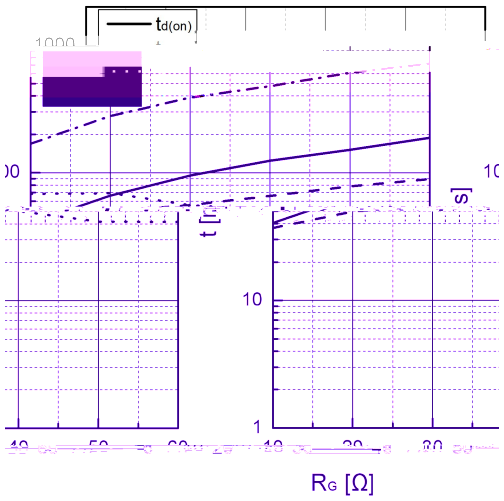
F 7. CE



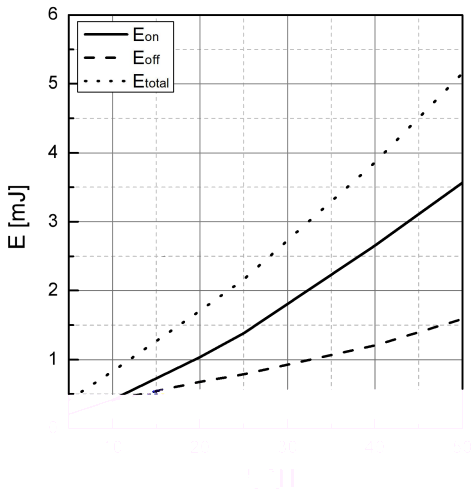
F 8. F F



F 9. C

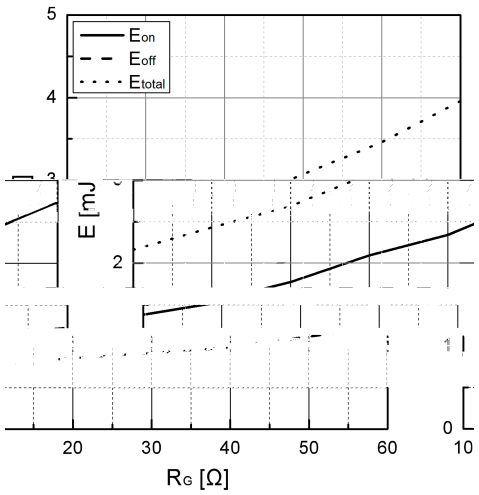


F 10. G



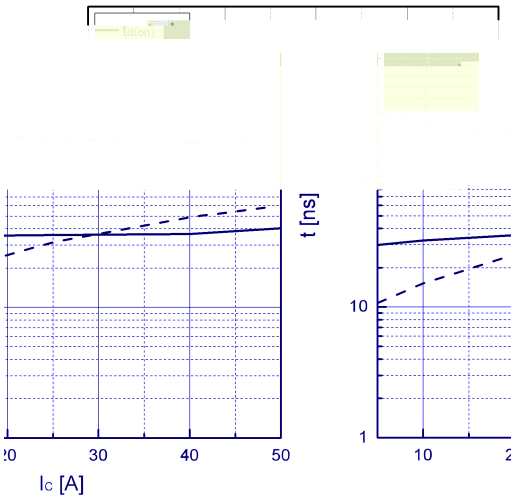
F 11.

C



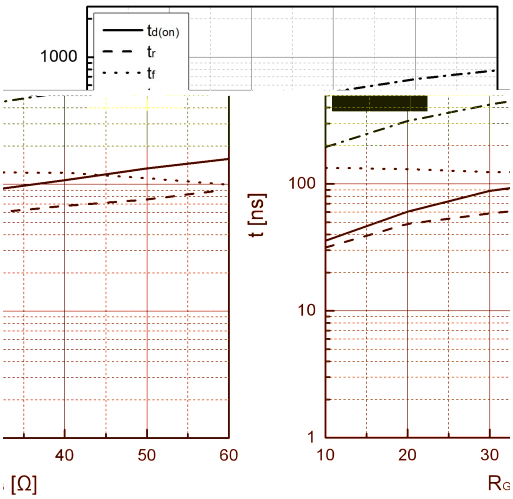
F 12.

G



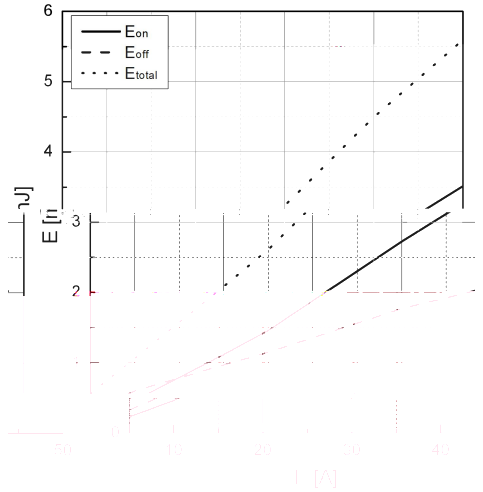
F 13. C

(=175)



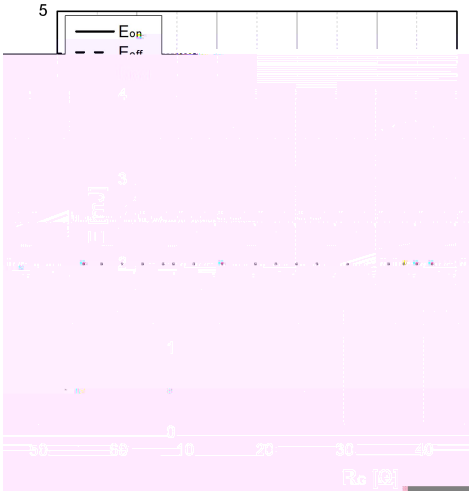
F 14. G

(=175)



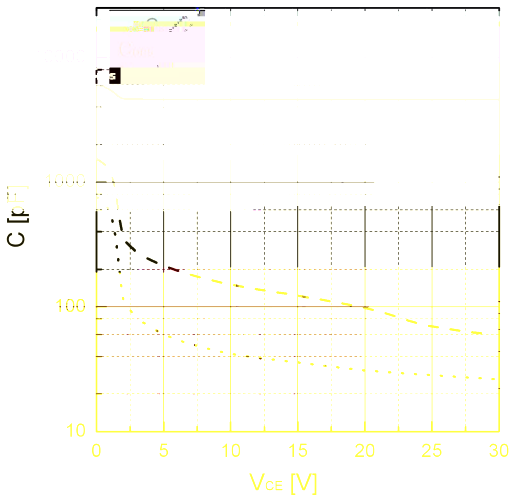
F 15.

C (=175)



F 16.

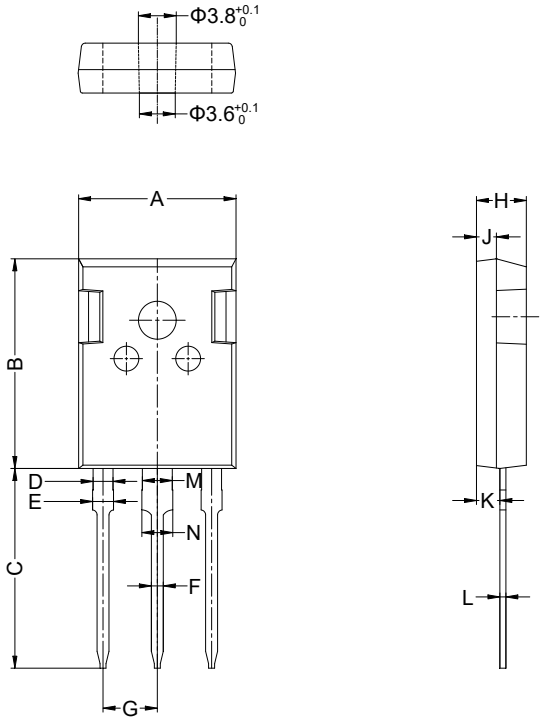
G (=175)



F 17. CE

(=1M , GE=0)

-247



.	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