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

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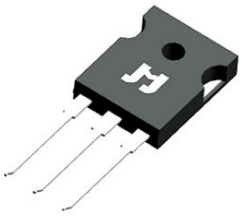
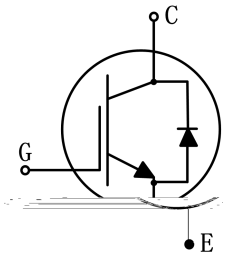




V_{CES}	C -	650	V
V_{GES}	G -	20	V
I_C	C (T_C=25)	100	A
	C (T_C=100)	50	A
I_{CM}	P , t T	200	A
I_F	D (T_C=100)	50	A
I_{FM}	D , t T	200	A
t	S	10	μ
P	P (T_C=25)	333	
	P (T_C=100)	167	
T	O	-40 +175	
T	S	-55 +150	

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

(T =25)

S

BV_{CES}	C -	V_{GE}=0V, I_C=250μA	650	-	-	V
I_{CES}	C -	V_{CE}=650V, V_{GE}=0V	-	-	50	μA
I_{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=1mA	5.3	5.7	6.1	V
$V_{CE( )}$	C -	V_{GE}=15 V, I_C=50A	-	1.65	-	V
		V_{GE}=15V, I_C=50A, T =175	-	2.10	-	V

D

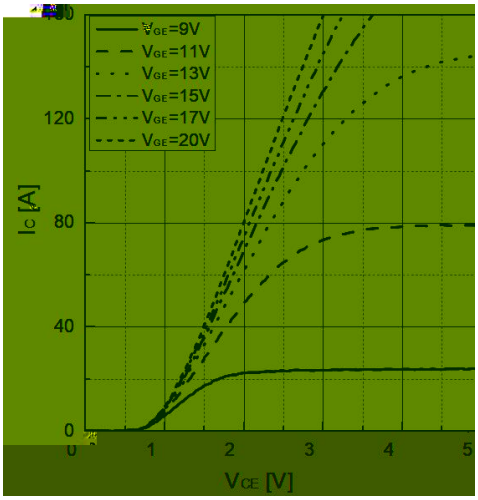
C	I	V_{CE}=30V V_{GE}=0V f=1MH	-	2890	-	F
C	O		-	170	-	F
C	R		-	34	-	F
Q	T	V_{CC}=520V V_{GE}=15V I_C=50A	-	185	-	C

S

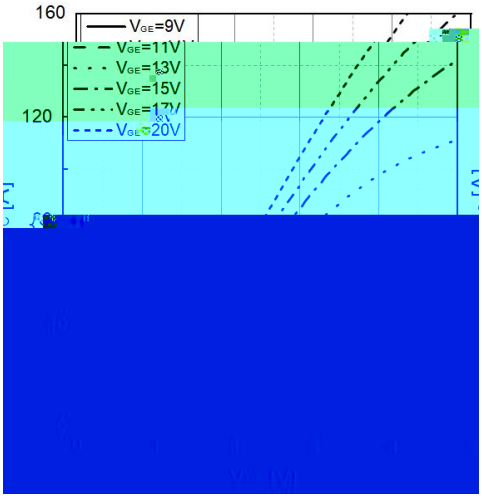
$t_{(\ )}$	T -	V_{CC}=400V V_{GE}=0/15V I_C=50A R_G=10Ω I	-	36	-	
t	R		-	105	-	
$t_{(\ )}$	T -		-	234	-	
t	F		-	39	-	
E	T -		-	3.0	-	J
E	T -		-	1.2	-	J
E	T		-	4.2	-	J
$t_{(\ )}$	T -	V_{CC}=400V V_{GE}=0/15V I_C=50A R_G=10Ω I T =175	-	37	-	
t	R		-	109	-	
$t_{(\ )}$	T -		-	256	-	
t	F		-	49	-	
E	T -		-	3.3	-	J
E	T -		-	1.5	-	J
E	T		-	4.8	-	J

(T =25)

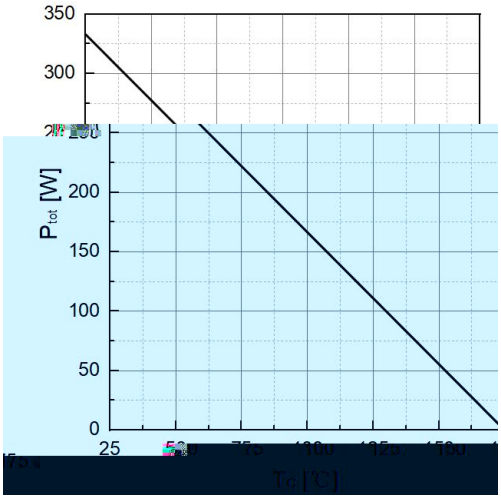
V_F	D	I_F=50A	-	1.60	-	V
		I_F=50A,T =175	-	1.35	-	V
t	D	V_R=400V I_F=50A i_F/ t=-400A/μ	-	106	-	
I	D		-	8	-	A
Q	D		-	500	-	C
t	D	V_R=400V I_F=50A i_F/ t=-400A/μ T =175	-	161	-	
I	D		-	20	-	A
Q	D		-	1853	-	C



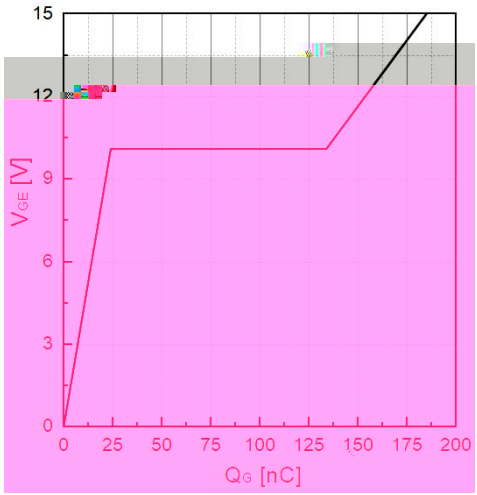
F 1. T (*T* =25)



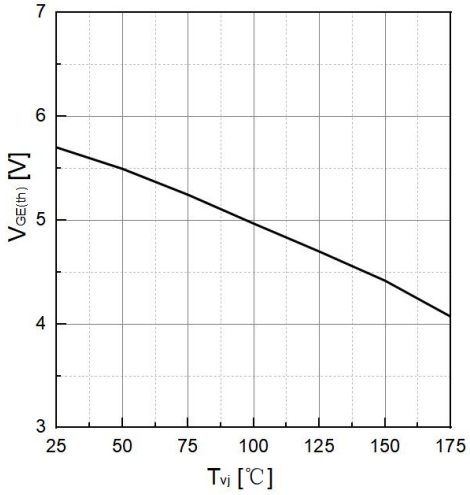
F 2. T (*T* =175)



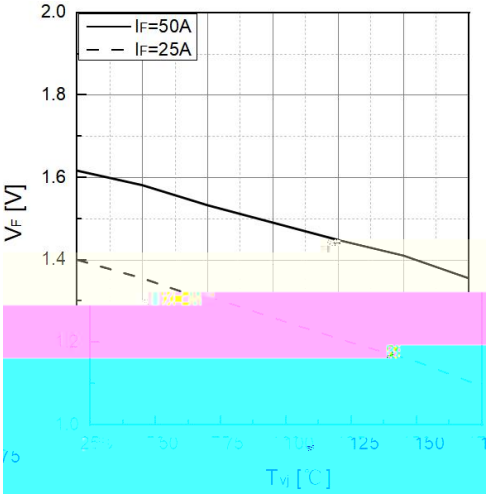
F 3. P *T*C



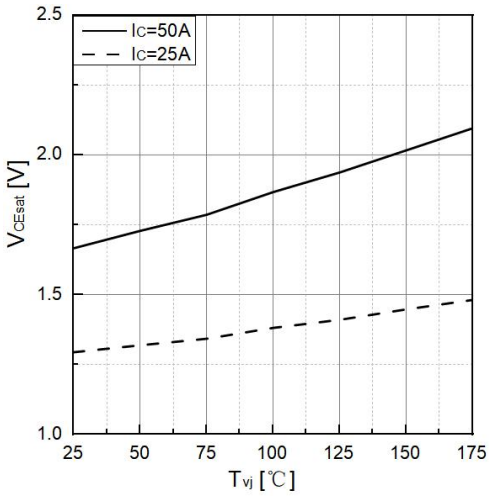
F 4. T G



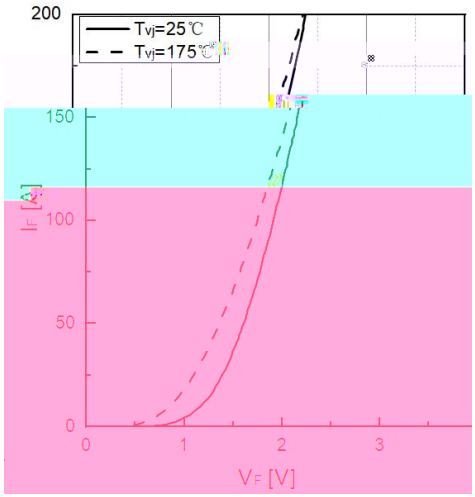
F 5. T *V*GE( ) *T*
(*I*C=1 A)



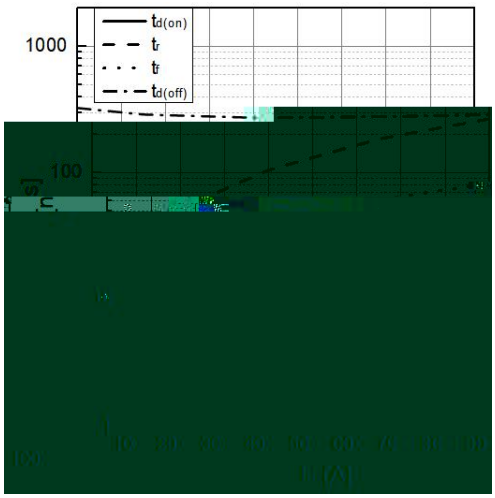
F 6. T *V*F *T*



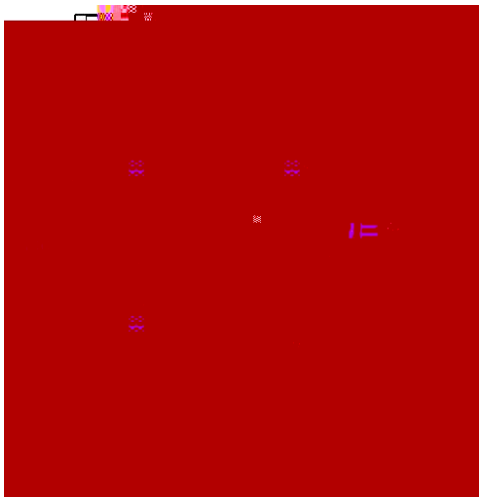
F 7. T V_{CE} T



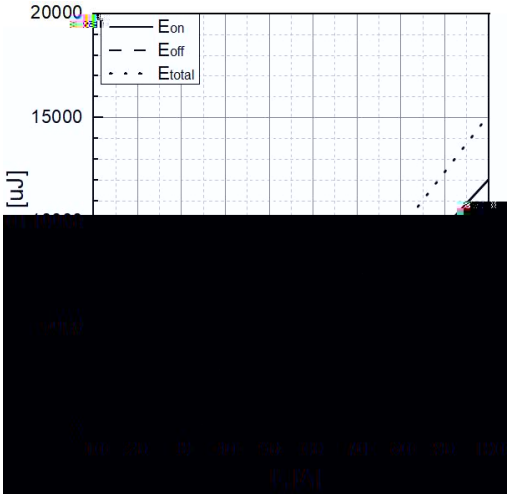
F 8. T I_F V_F



F 9. T I_C

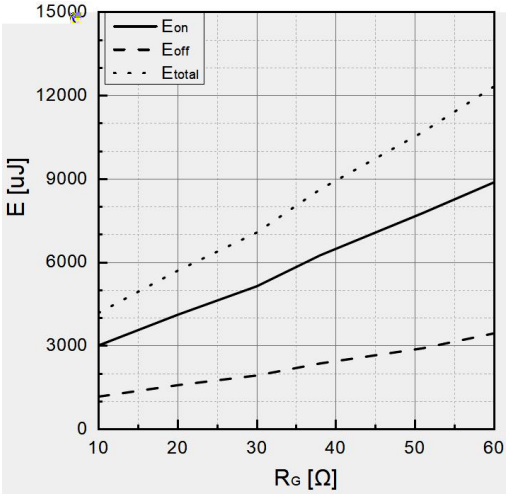


F 10. T R_G



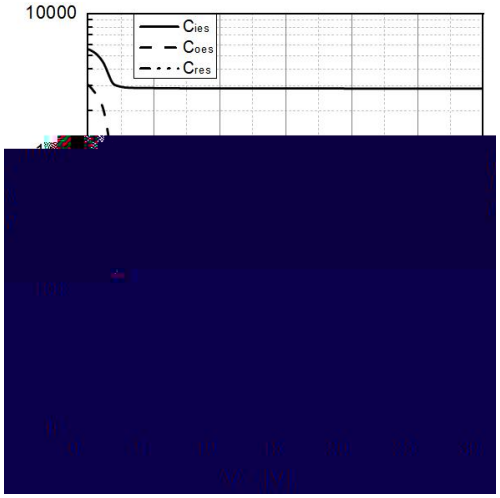
F 11. T

I_C

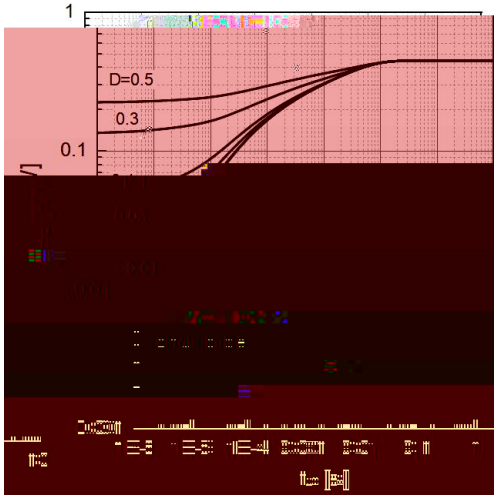


F 12. T

R_G



F 13. T V_{CE} (=1M , V_{GE}=0V)



F 14. T IGBT

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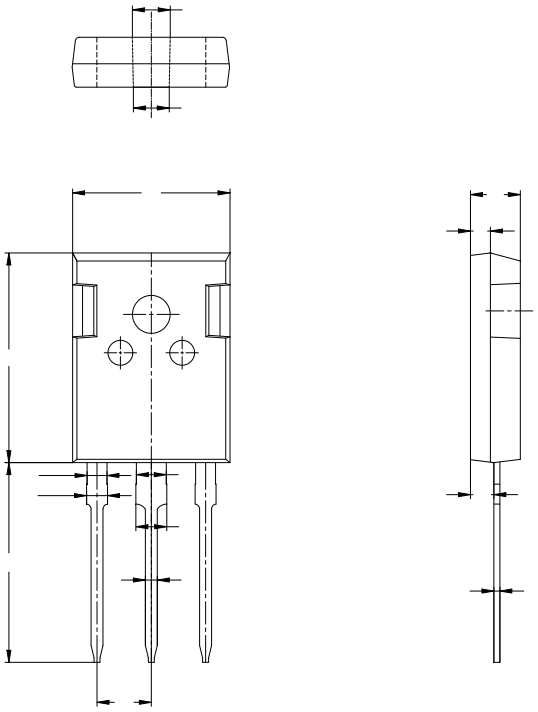

R .	D					
	M			I		
	M .	T .	M .	M .	T .	M .
A	15.50	15.80	16.10	0.610	0.622	0.634
B	20.80	21.00	21.20	0.819	0.827	0.835
C	19.70	20.00	20.30	0.776	0.787	0.799
D	1.80	2.00	2.20	0.071	0.079	0.087
E	1.90	2.10	2.30	0.075	0.083	0.091
F	1.00	1.20	1.40	0.039	0.047	0.055
G	5.25	-	5.65	0.207	-	0.222
H	4.80	5.00	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
, . T
JJM JJM'
JJM'
. P JJM
, , JJM' . A JJM
. T JJM
J J J M C ., L . T
. 2026 JJM - A