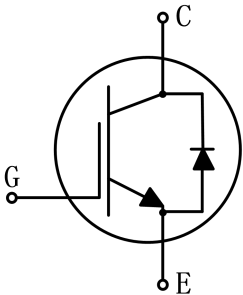


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- $V_{CE}=650V$
- $I_C=10A@T_C=100^{\circ}C$
- $V_{CE(sat)}=1.8V$

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

- H
- M



T	M	P	P
JJT10N65SC	T1065SC	TO-263	T



CES	C	-	650	V
GES	G	-	20	V
C	C	(c=25)	20	A
	C	(c=100)	10	A
CM	P	,	40	A
F	D	(c=100)	10	A
FM	D	,	40	A
	S		10	
	P	(c=25)	136	
	P	(c=100)		





($\beta = 25$)

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
$V_{GE}(\beta)$	G -	$V_{GE}=V_{CE}, I_C=1 \text{ A}$	5.3	5.8	6.3	V
$V_{CE}(\beta)$	C -	$V_{GE}=15V, I_C=10A$	-	1.8	-	V
		$V_{GE}=15V, I_C=10A, \beta=175$	-	2.3	-	V

D

	I	$V_{CE}=30V$ $V_{GE}=0V$ $\beta=1MH$	-	670	-	F
	O		-	37	-	F
	R		-	10	-	F
	T	$V_{CC}=520V$ $V_{GE}=15V$ $I_C=10A$	-	28	-	C



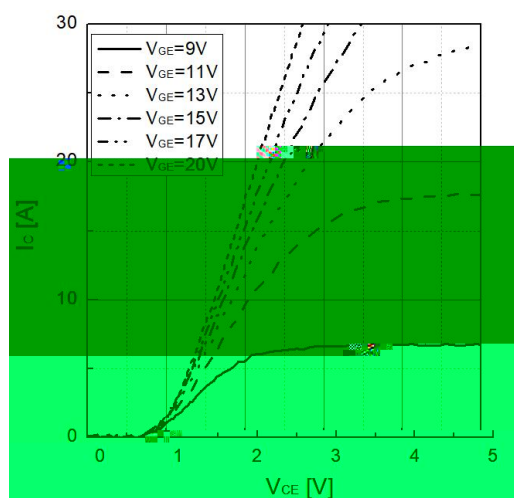
S

()	T -	CC=400V GE=0/15V C=10A G=10Ω I	-	12	-	
	R		-	11	-	
()	T -		-	74	-	
	F		-	71	-	
	T -		-	0.18	-	J
	T -		-	0.17	-	J
	T		-	0.35	-	J
()	T -	CC=400V GE=0/15V C=10A G=10Ω I =175	-	11	-	
	R		-	13	-	
()	T -		-	114	-	
	F		-	87	-	
	T -		-	0.22	-	J
	T -		-	0.27	-	J
	T		-	0.49	-	J

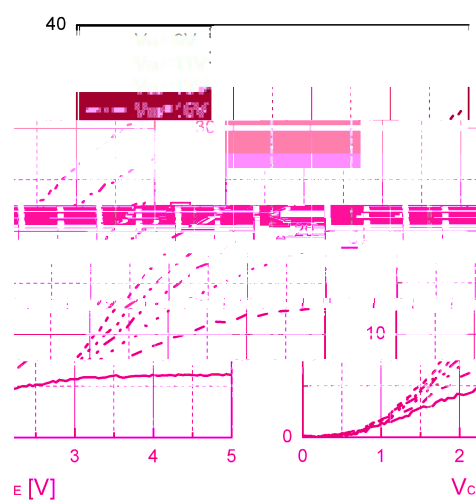


(≈ 25)

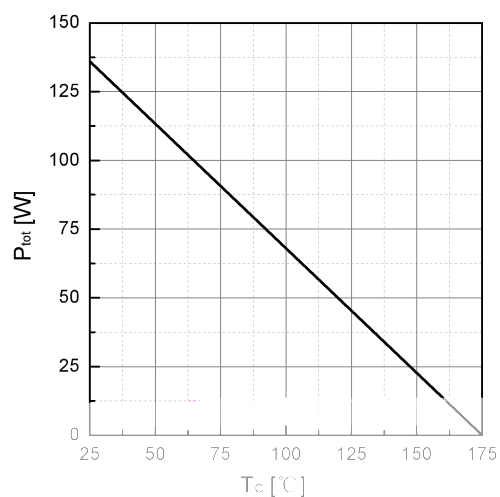
F	D	$F=10A$	-	1.4	-	V
		$F=10A, \approx 175$	-	1.2	-	V
	D	$R=400V$ $F=10A$ $F/ \approx -750A/$	-	57	-	
	D		-	12	-	A
	D		-	411	-	C
	D	$R=400V$ $F=10A$ $F/ \approx -750A/$ ≈ 175	-	124	-	
	D		-	13	-	A
	D		-	737	-	C



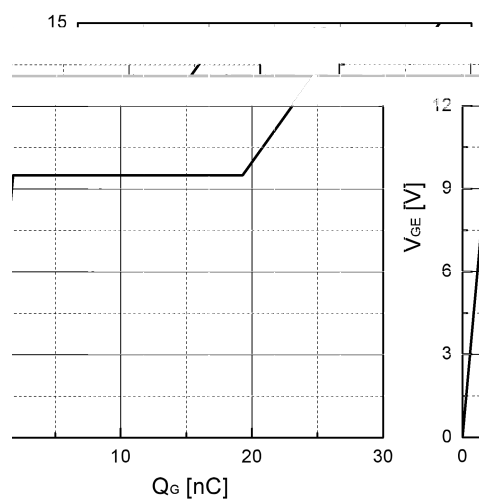
F 1. T (=25)

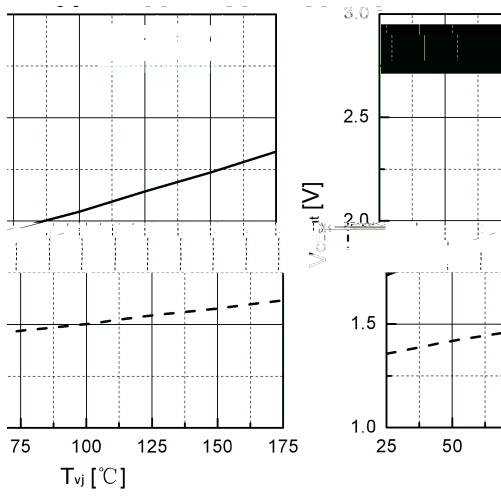


F 2. T (=175)

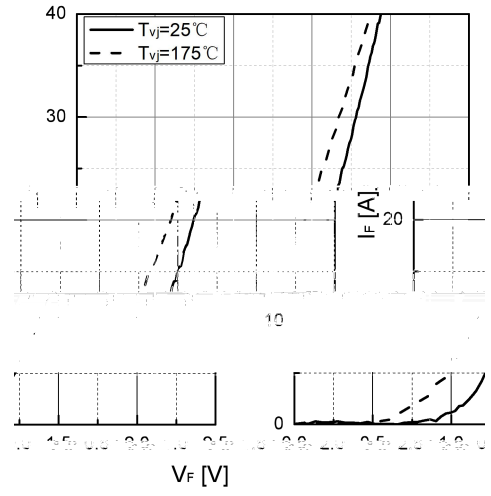


F 3. P . P3

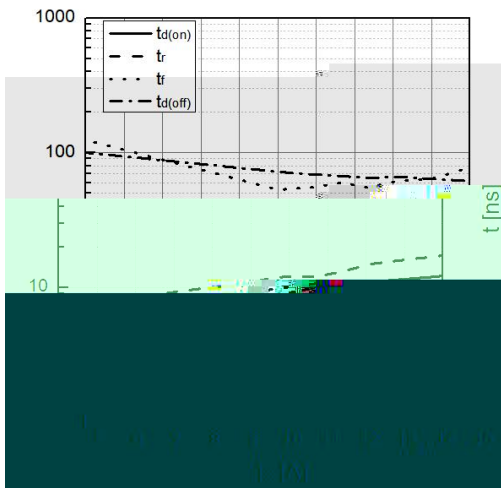




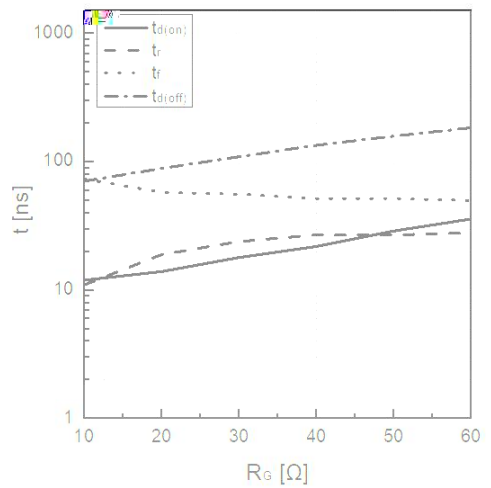
F 7. T CE



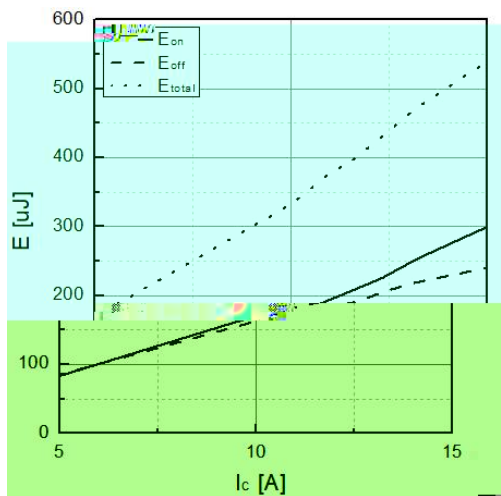
F 8. T F F



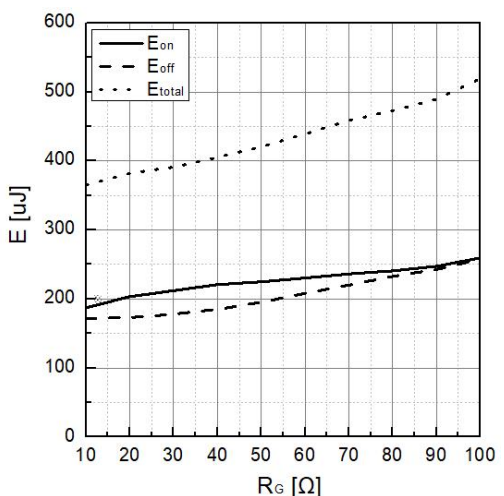
F 9. T C



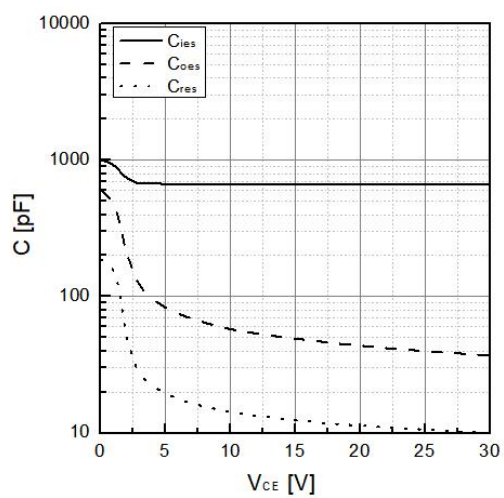
F 10. T G



F 11. T C



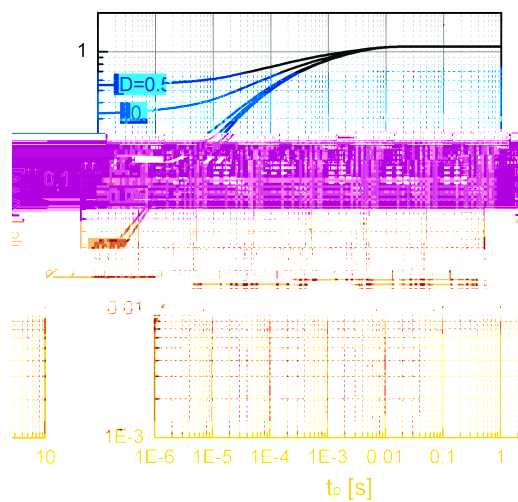
F 12. T G



F 13. T

CE

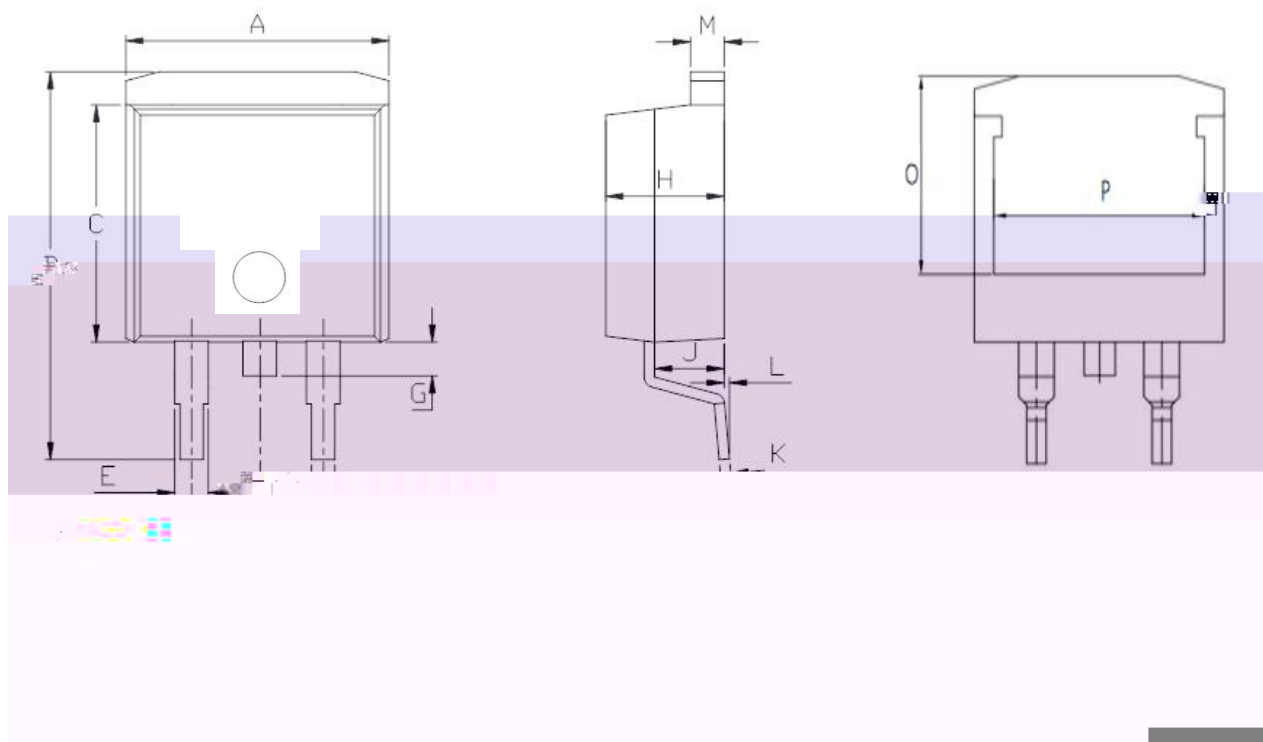
($I_{CE} = 1\text{M}$, $V_{GE} = 0\text{V}$)



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
2023-12-23	R 1.0	R
2025-02-06	R 1.1	U
2025-04-08	R 1.2	C U
2026-03-12	R 1.3	U POD
2026-06-23	R 1.4	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
 . 2025 JJM - A

