V_{CES}	Collector-emitter voltage	650	V
V_{GES}	Gate-emitter voltage	±20	V
I_C	Continuous collector current (T_C=25)	60	A
	Continuous collector current (T_C=100)	30	A
I_{CM}	Pulsed collector current, t_p limited by T_{vjmax}	120	A
I_F	Diode continuous forward current (T_C=100)	30	A
I_{FM}	Diode maximum current, t_p limited by T_{vjmax}	80	A
t_{sc}	Short circuit withstand time	10	µs
P_{tot}	Power dissipation (T_C=25)	300	W
	Power dissipation (T_C=100 !		

$t_{d(on)}$	Turn-on delay time	-	30	-	ns
t_r	RĎъ				

V_{CC}=400V
V_{GE}=0/15V
I_C=30A
R_G=10
Inductive load

($_{vj}$=25 unless otherwise specified)

$_{F}$	Diode forward voltage	$_{F}$=30A	-	1.7	-	V
		$_{F}$=30A, $_{vj}$=175	-	1.4	-	V
$_{rr}$	Diode reverse recovery time	$_{R}$=400V $_{F}$=30A d $_{F}$/d =-550A/μs	-	105	-	ns
$_{rrm}$	Diode peak reverse recovery current		-	16	-	A
$_{rr}$	Diode reverse recovery charge		-	876	-	nC
$_{rr}$	Diode reverse recovery time	$_{R}$=400V $_{F}$=30A d $_{F}$/d =-550A/μs $_{vj}$=175	-	171	-	ns
$_{rrm}$	Diode peak reverse recovery current		-	26	-	A
$_{rr}$	Diode reverse recovery charge		-	2650	-	nC

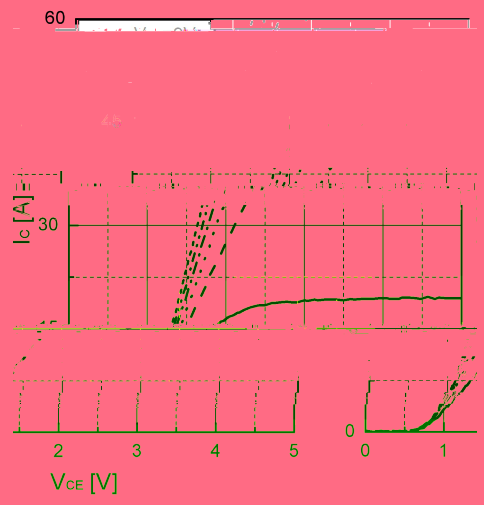

Fig 1. Typical output characteristic ($_{vj}$=25)

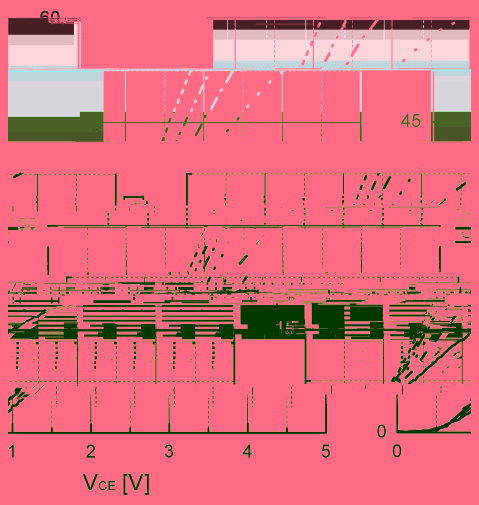

Fig 2. Typical output characteristic($_{vj}$=175)

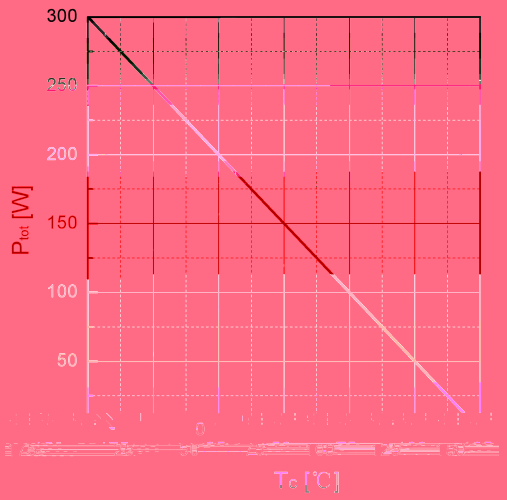

Fig 3. Power dissipation as a function of

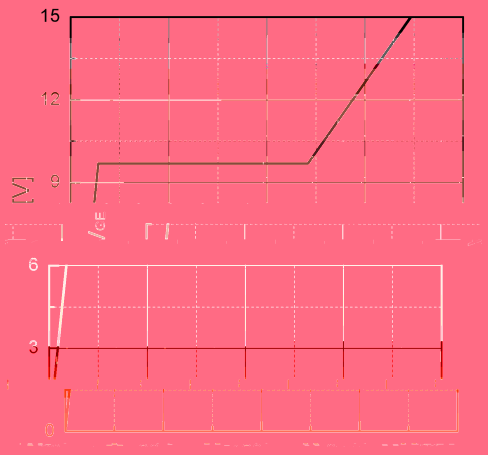

Fig 4. Typical Gate charge

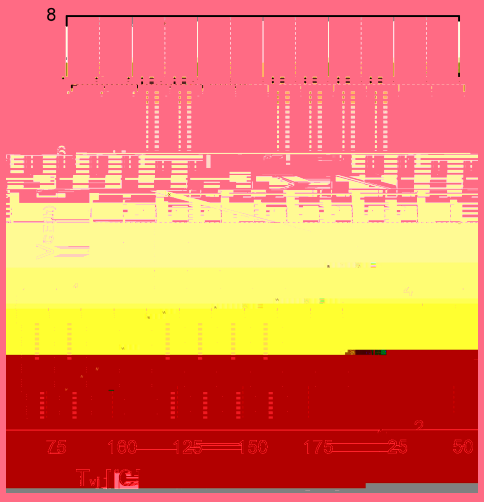

Fig 5. Typical $_{GE(th)}$ as a function of $_{vj}$ ($_{C}$=1mA)

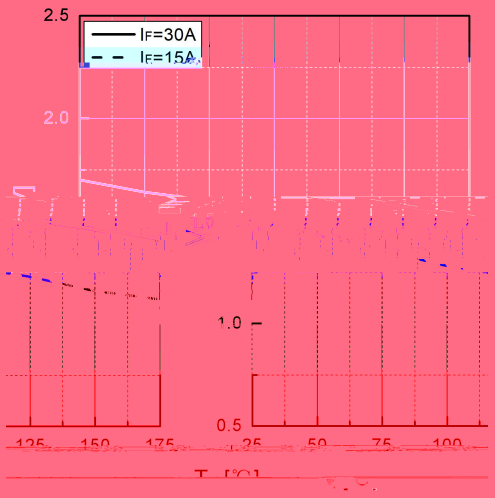

Fig 6. Typical $_{F}$ as a function of $_{vj}$

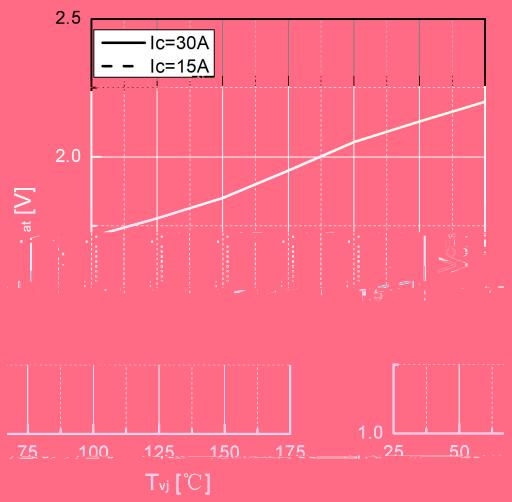

Fig 7. Typical $_{CEsat}$ as a function of $_{vj}$

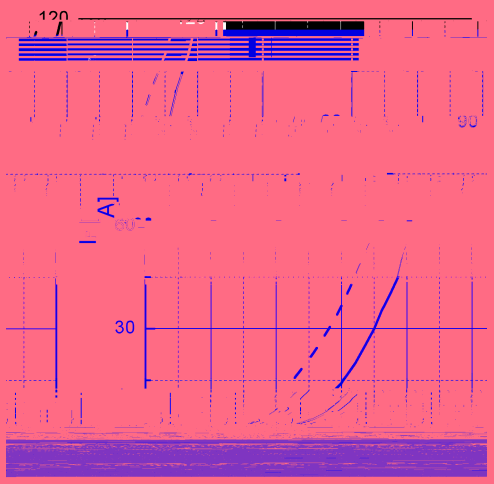

Fig 8. Typical $_{F}$ as a function of $_{F}$

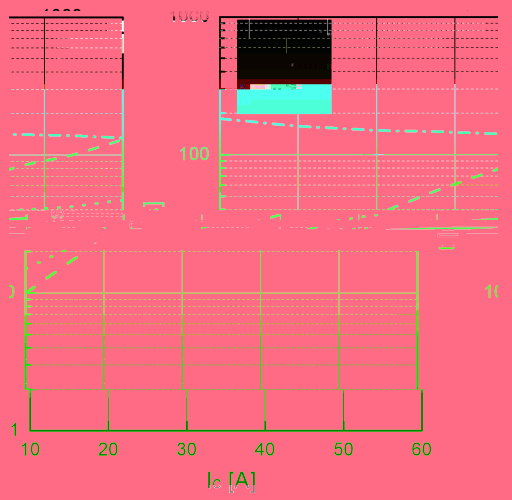

Fig 9. Typical switching time as a function of $_{C}$

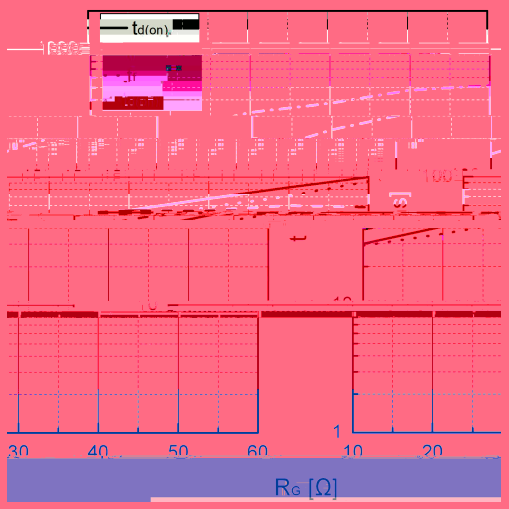

Fig 10. Typical switching times as a function of $_{G}$

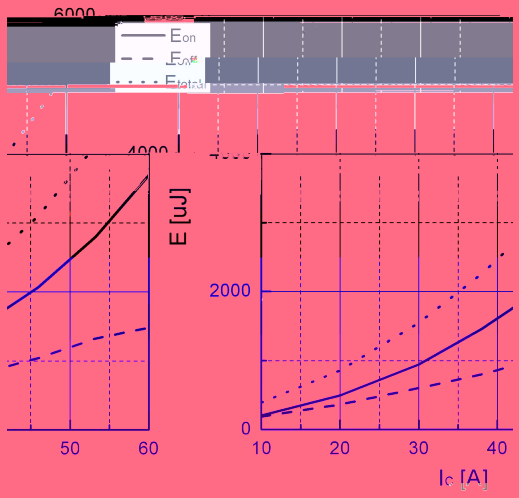

Fig 11. Typical switching energy losses as a function of $_{C}$

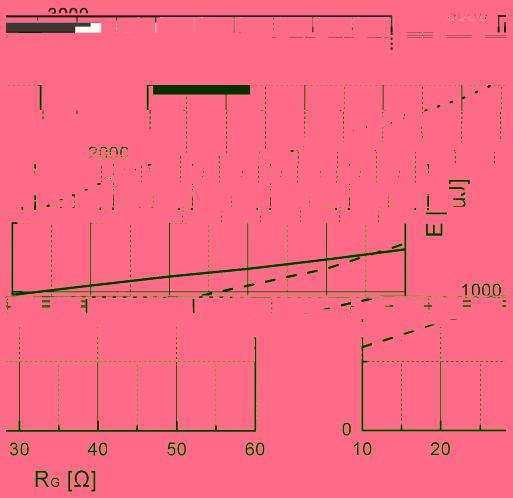

Fig 12. Typical switching energy losses as a function of $_{G}$

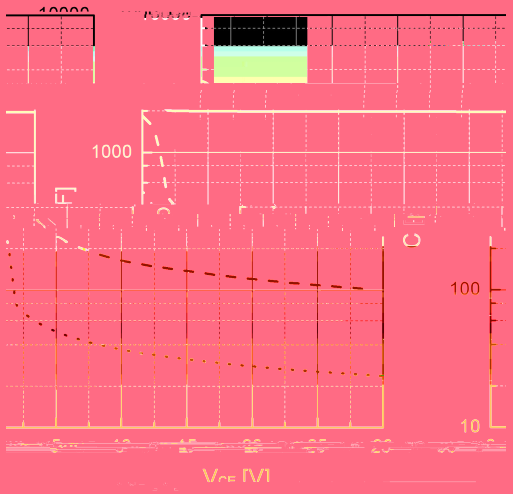

Fig 13. Typical capacitance as a function of $_{CE}$ (f=1Mhz, $_{GE}$=0V)

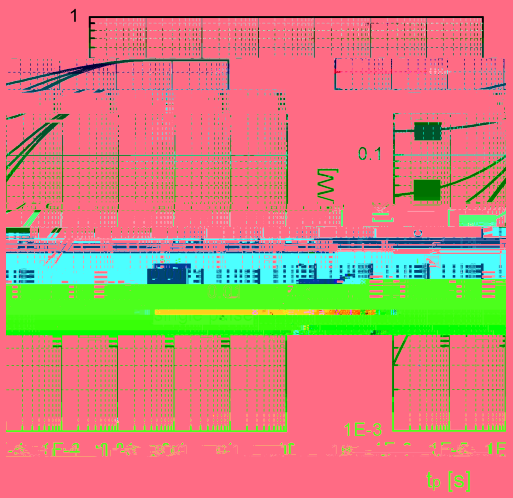

Fig 14. Transient thermal impedance of IGBT

Date	Revision	Changes
2024-03-20	Rev 1.1	Update
2024-05-17	Rev 1.2	Update
2025-03-09	Rev 1.3	Character update

PLEASE NOTE - Jiangsu JieJie Microelectronics Co., Ltd ("JJM") reserves the right to amend, correct, modify