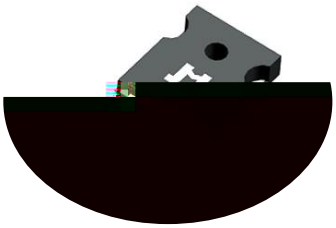
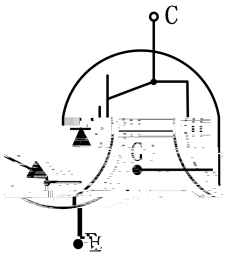
- V_{CE}=1200V
- I_C=25A@ T_C=100
- $V_{CE(sat)}$=1.7V

TO-247





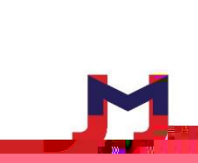
- Trench and field-stop technology
- High speed switching
- Low collector to emitter saturation voltage
- Easy parallel switching capability
- Short circuit withstands time 10μs
- High ruggedness performance
- RoHS compliant

- General inverter
- Motor drives

Type	Marking	Package	Packaging Method
JJT25N120SE	T25120SE	TO-247	Tube

A dc f a c edad bec e ad ca e .

V_{CES}	Collector-emitter voltage	1200	V
V_{GES}	Gate-emitter voltage	±20	V
I_C	Continuous collector current (T_C=25)	50	A
	Continuous collector current (T_C=100)	25	A
I_{CM}	Pulsed collector current, p limit e		



$t_{d(on)}$	Turn-on delay time	-	31	-	ns
t_r	Rise time				

V_{CC}=600V
V_{GE}=0/15V
I_C=25A
R_G=10
Inductive load

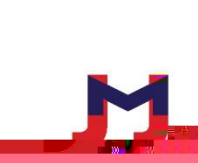




Fig 1. Typical output characteristic ($_{vj}$=25)

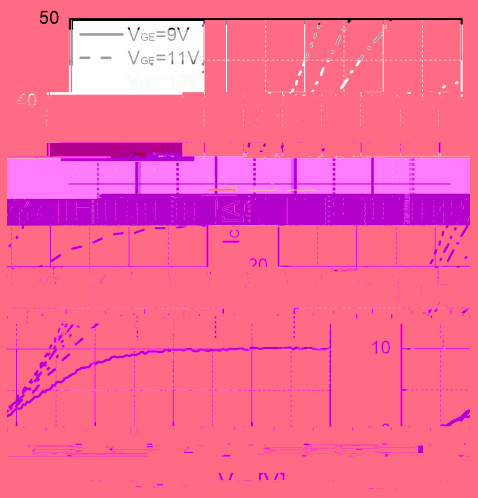
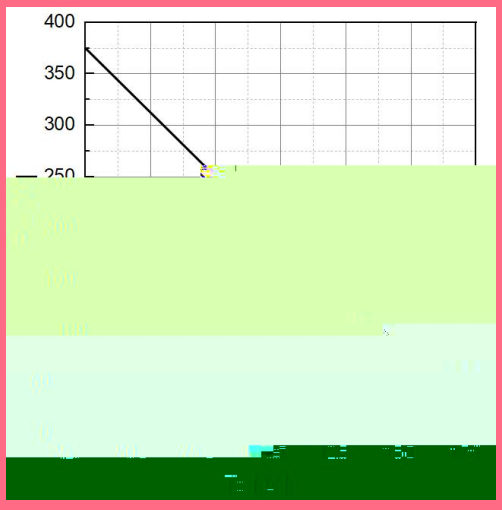
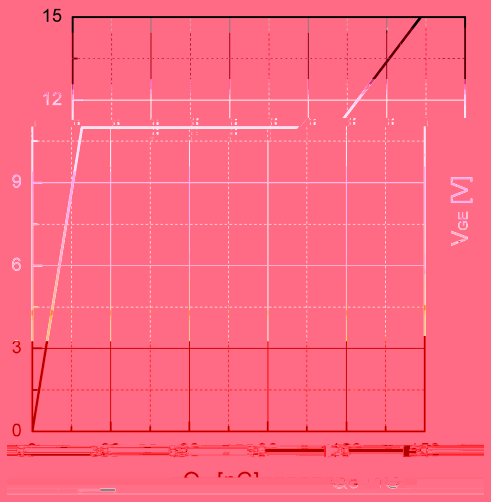


Fig 2. Typical output characteristic($_{vj}$=175)





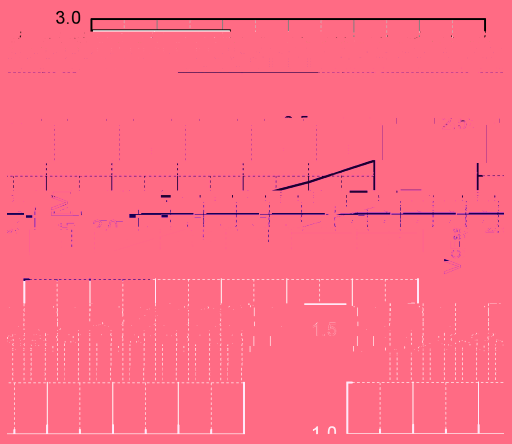


Fig 7. Typical $_{CEsat}$ as a function of $_{vj}$



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

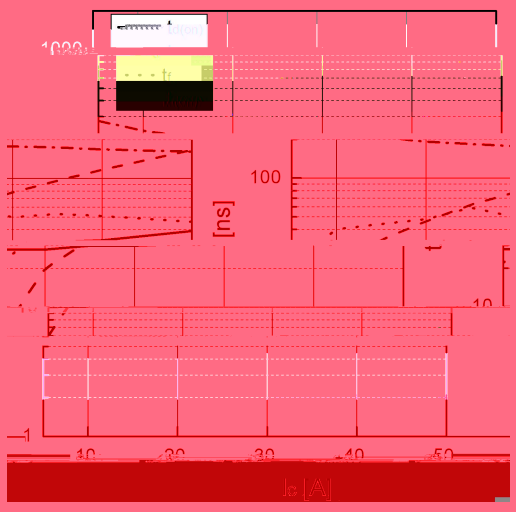


Fig 9. Typical switching time as a function of $_{C}$

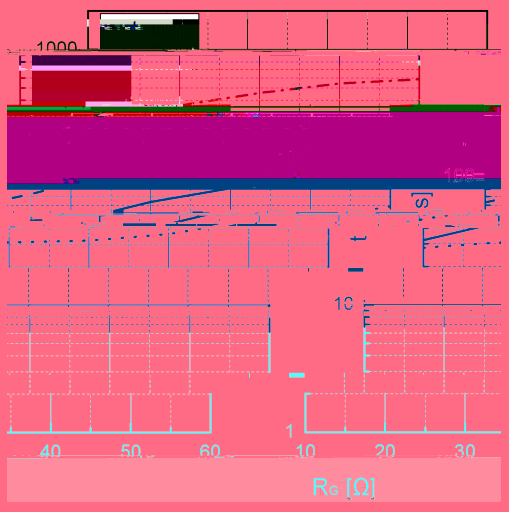


Fig 10. Typical switching times as a function of $_{G}$

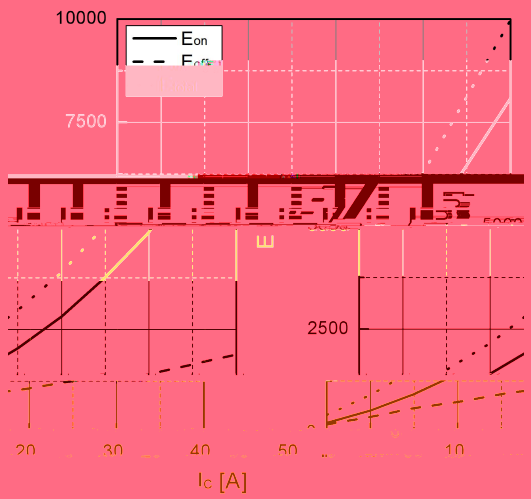


Fig 11. Typical switching energy losses as a function of $_{C}$

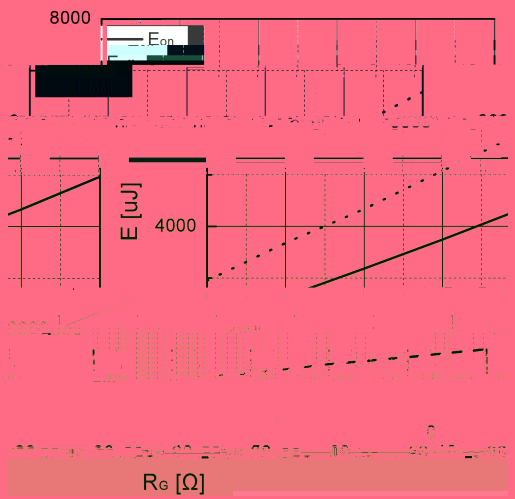


Fig 12. Typical switching energy losses as a function of $_{G}$

A d c f a c ed a d bec e a d ca e .



A d c f a c ed a d

A d c f a c edad bec e ad ca e .

RefÓimen illimeters

Date	Revision	Changes
2023-11-12	Rev 1.0	Release of the datasheet
2024-03-20	Rev 1.1	Update
2024-05-17	Rev 1.2	Update
2026-06-25	Rev 1.3	Update thermal

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