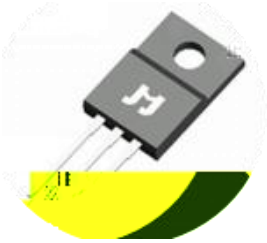
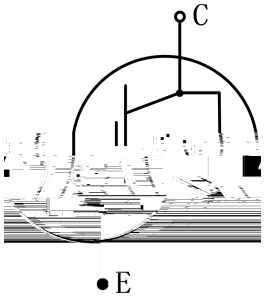
- V_{CE}=650V
- I_C=20A@ T_C=100
- $V_{CE(sat)}$=1.6 V

TO-220F



- High ruggedness performance.
- 10μs short circuit capability.
- Positive $V_{CE\ (sat)}$ temperature coefficient.
- High efficiency for motor control.
- Excellent current sharing in parallel operation.
- RoHS compliant.



- Home appliances
- Motor drives
- General inverter

Type	Marking	Package	Packaging method
JJT20N65SS	T2065SS	TO-220F	Tube

$_{CES}$	Collector-emitter voltage	650	V
$_{GES}$	Gate-emitter voltage	±20	V
$_{C}$	Continuous collector current ($_{C}$=25)	40	A
	Continuous collector current ($_{C}$=100)	20	A
$_{CM}$	Pulsed colle ` ı		

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$_{CES}$	Collector-emitter breakdown voltage	$_{GE}$=0V, $_{C}$=250μA	6

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F

F Diode forward voltage

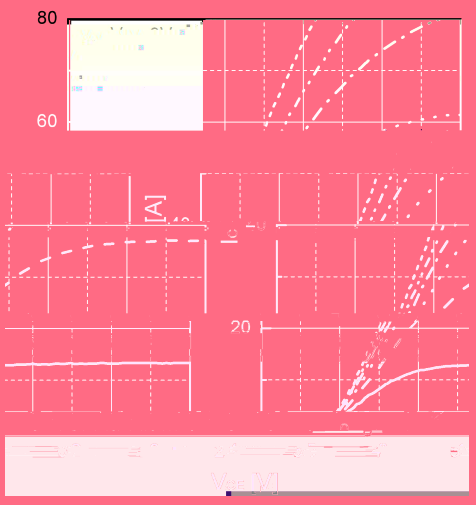


Fig 1. Typical output characteristic ($_{vj}$=25)

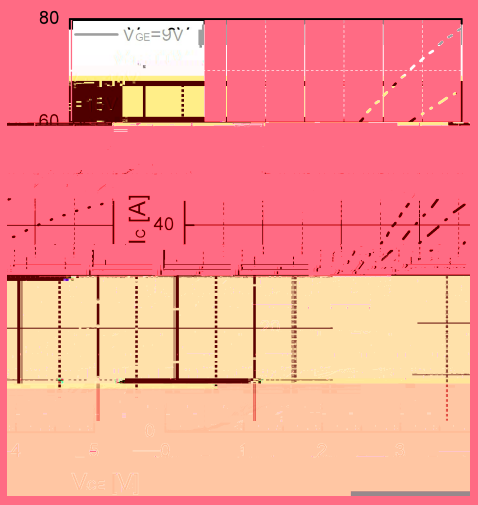
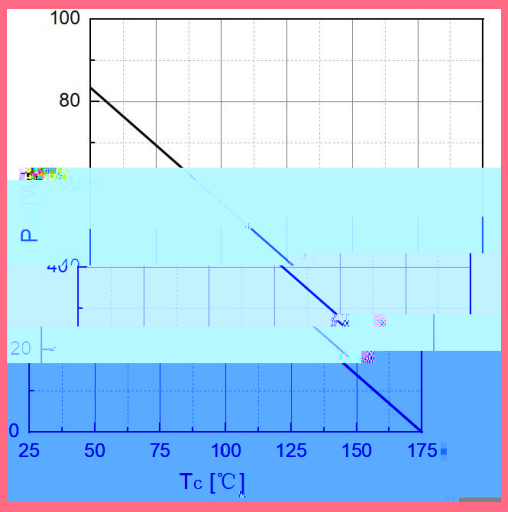
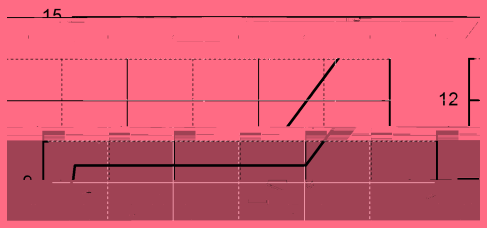


Fig 2. Typical output characteristic($_{vj}$=175)





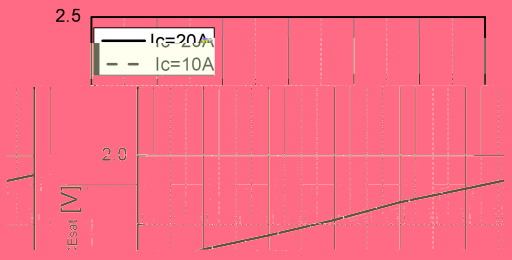


Fig 7. Typical $_{CEsat}$ as a function of $_{vj}$

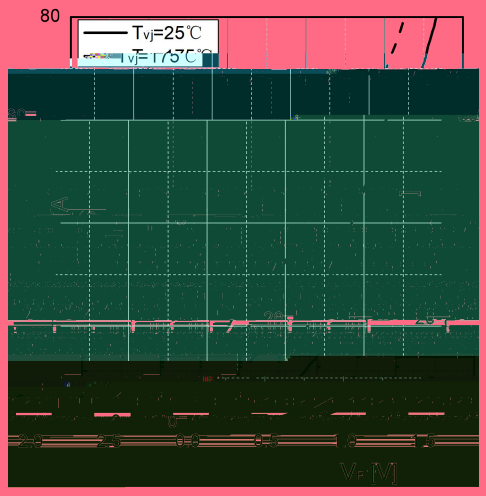


Fig 8. Typical $_{F}$ as a function of $_{F}$

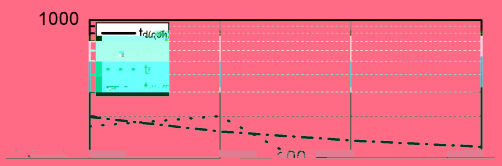


Fig 9. Typical switching time as a function of $_{C}$

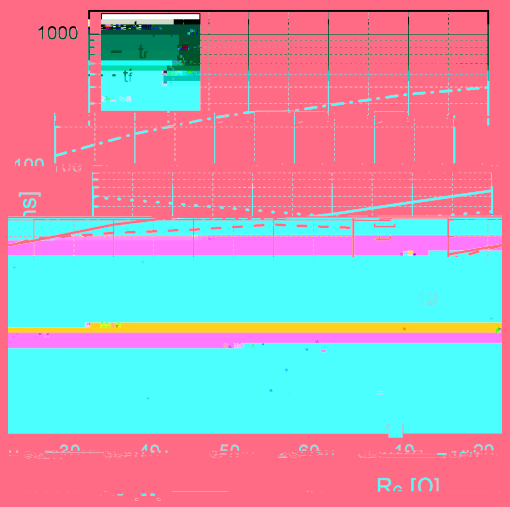


Fig 10. Typical switching times as a function of $_{G}$

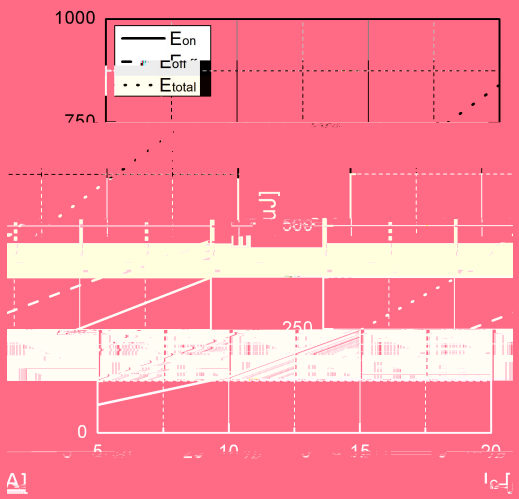


Fig 11. Typical switching energy losses as a function of $_{C}$

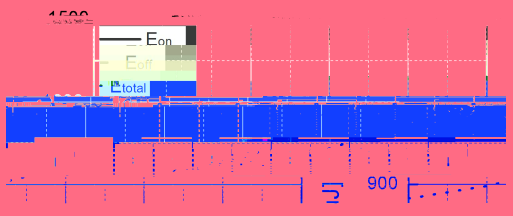


Fig 12. Typical switching energy losses as a function of $_{G}$

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A d c f a c ed a d

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.50	-	4.90	0.177	-	0.193
B	0.74	0.80	0.83	0.029	0.031	0.033
C	0.47	-	0.66	0.019	-	0.026
C2	2.45	-	2.75	0.096	-	0.108
C3	2.60	-	3.00	0.102	-	0.118
D	8.80	-	9.30	09	-	09

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Date	Revision	Changes
2023-12-05	Rev 1.0	Release of the datasheet.
2024-05-20	Rev 1.1	Update
2025-03-06	Rev 1.2	Character update
2026-06-24	Rev 1.3	Update thermal

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