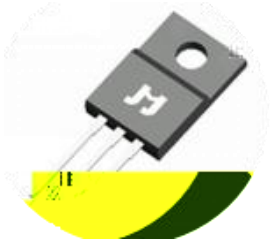
JJMICROELECTRONICS

650V 15A T elıch alıd Field S IGBT

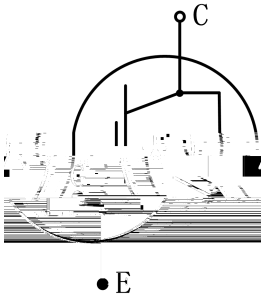
JJT15N65HS

- $_{CE}$=650V
- $_{C}$=15A@ $_{C}$=100
- $_{CE(sat)}$=1.7 V

TO-220F



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



- Energy storage

Type	Marking	Package	Packaging method
JJT15N65HS	T1565HS	TO-220F	Tube

V_{CES}	Collector-emitter voltage	650	V
V_{GES}	Gate-emitter voltage	±20	V
I_C	Continuous collector current (T_C=25)	30	A
	Continuous collector current (T_C=100)	15	A
I_{CM}	Pulsed collector current, t_p limited by T_{vjmax}	60	A
I_F	Diode continuous forward current (T_C=100)	15	A
I_{FM}	Diode maximum current, t_p		

A

g

[redacted]

$_{CES}$	Collector-emitter breakdown voltage	$_{GE}$=0V, $_{C}$=250μA	650	-	-	V
$_{GES}$	Collector-emitter leakage current	$_{CE}$=650V, $_{GE}$=0V	-	-		

[redacted]

$t_{d(on)}$ Turn-on delay time

V_{CC}=400V

V_{GE}=0/15V

I_C=15A

R_G=10

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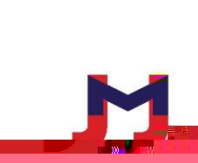




Fig 1. Typical output characteristic ($_{vj}$=25)

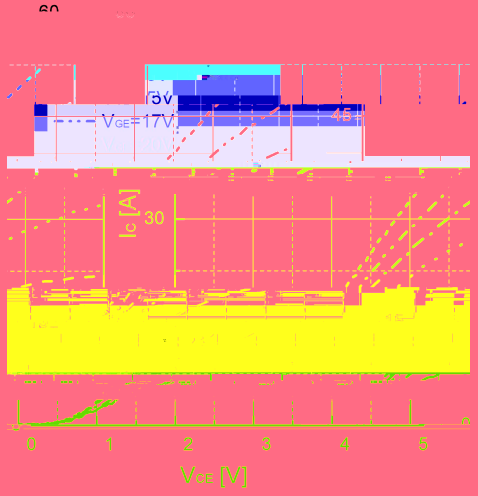


Fig 2. Typical output characteristic($_{vj}$=175)

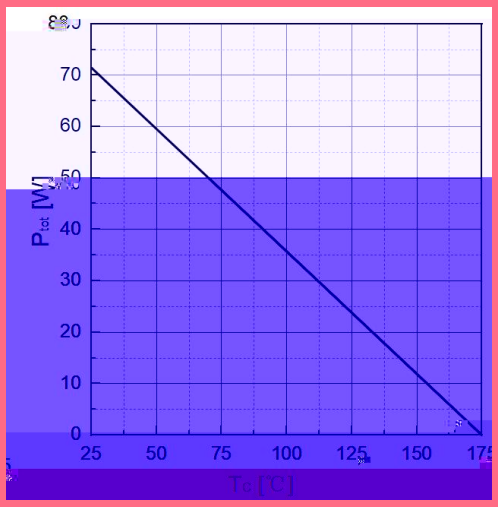


Fig 3. Power dissipation as a function of

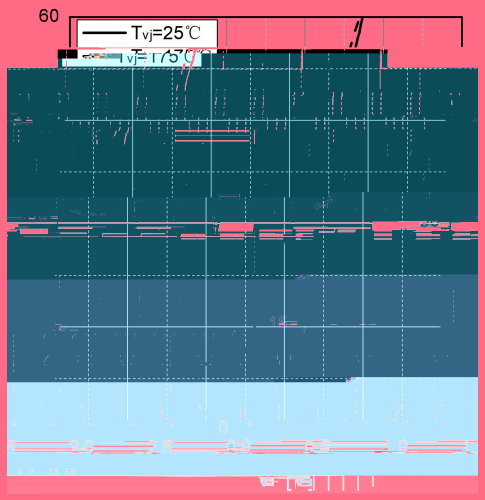


Fig 4. Typical $_{F}$ as a function of $_{F}$

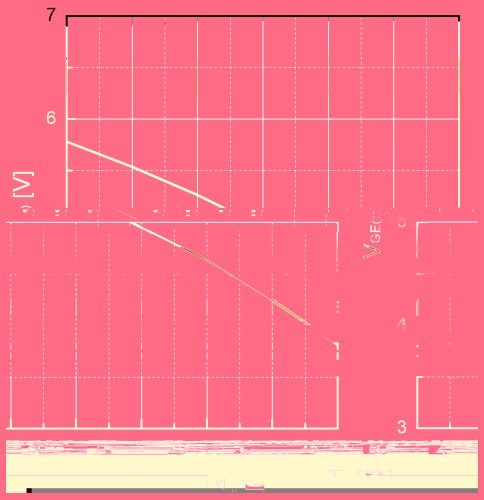


Fig 5. Typical $_{GE(th)}$ as a function of $_{vj}$ ($_{C}$=1mA)

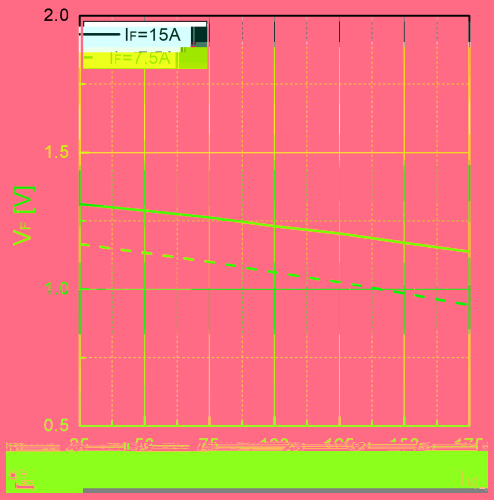
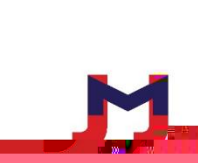


Fig 6. Typical $_{F}$ as function of $_{vj}$

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





A

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
2025-04-30	Rev 1.0	Release of the datasheet
2026-06-24	Rev 1.1	Update thermal

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