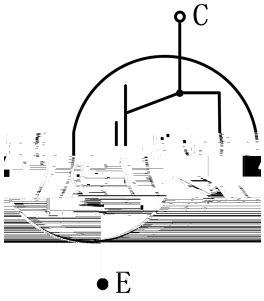
JJMICROELECTRONICS

TO-263

- $_{CE}$=650V
- $_{C}$=15A@ $_{C}$=100
- $_{CE(sat)}$=1.6 V



- High ruggedness performance.
- 10μs short circuit capability.
- Positive $_{CE\ (sat)}$ 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
JJT15N65SC	T1565SC	TO-263	Tape and reel

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CES	Collector-emitter voltage	650	V
GES	Gate-emitter voltage	±20	V
C	Continuous collector current (C=25)	30	A
	Continuous collector current (C=100)	15	A
CM	Pulsed collector current, p limited by vjmax	60	A
F	Diode continuous forward current (C=100)	15	A
FM	Diode maximum current, p limited by vjmax	60	A
sc	Shm l		

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V_{CES} Collector-emitter breakdown voltage V_{GE}

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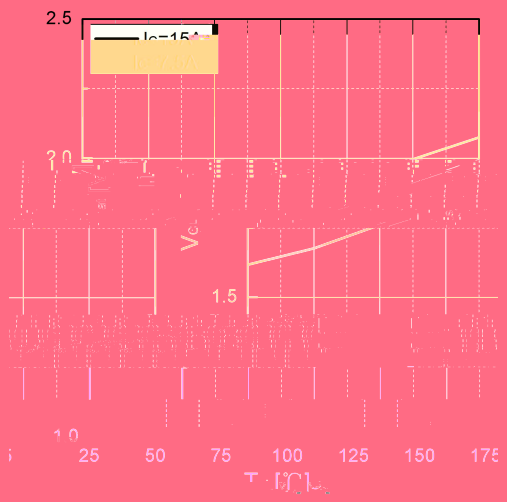


Fig 7. Typical $_{CEsat}$ as a function of $_{vj}$

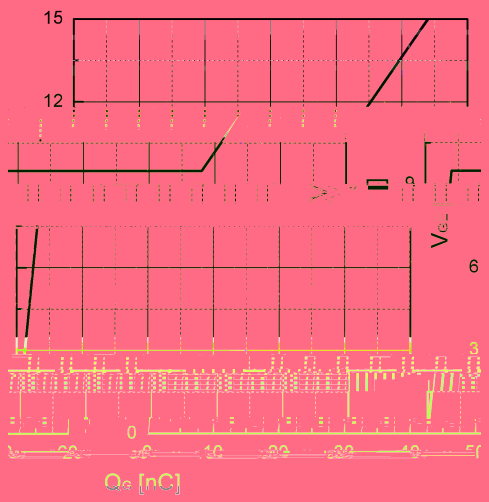


Fig 8. Typical Gate charge

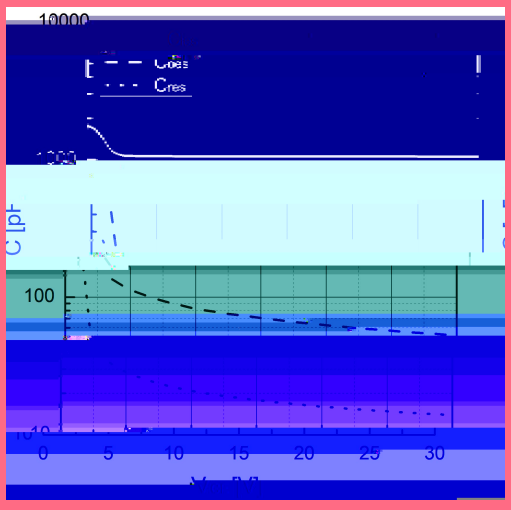
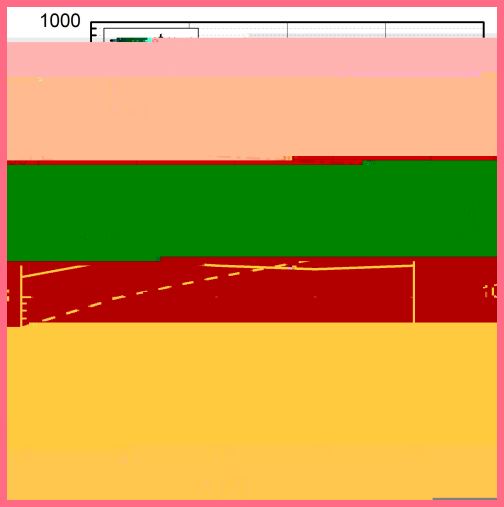


Fig 9. Typical capacitance as a function of $_{CE}$

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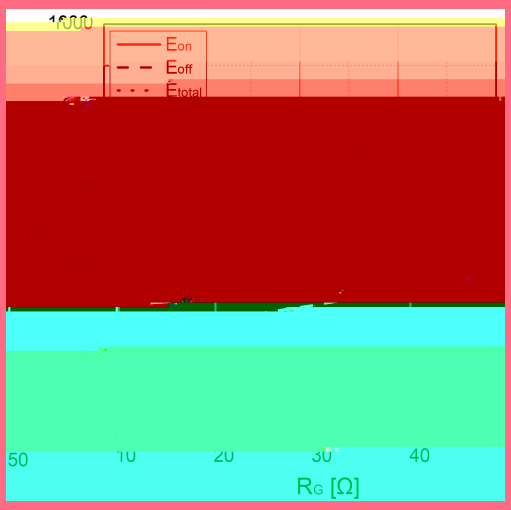


Fig 13. Typical switching energy losses as a function of R_G

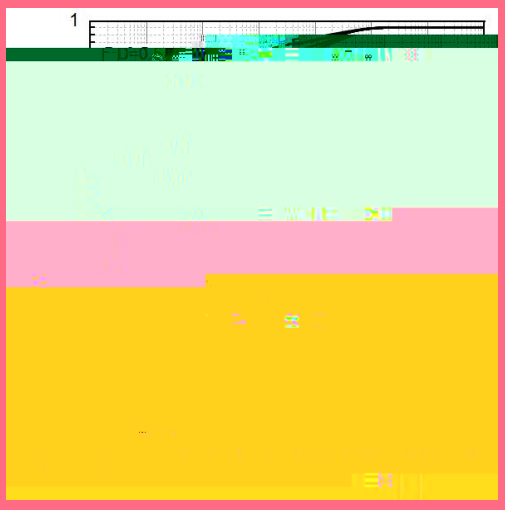
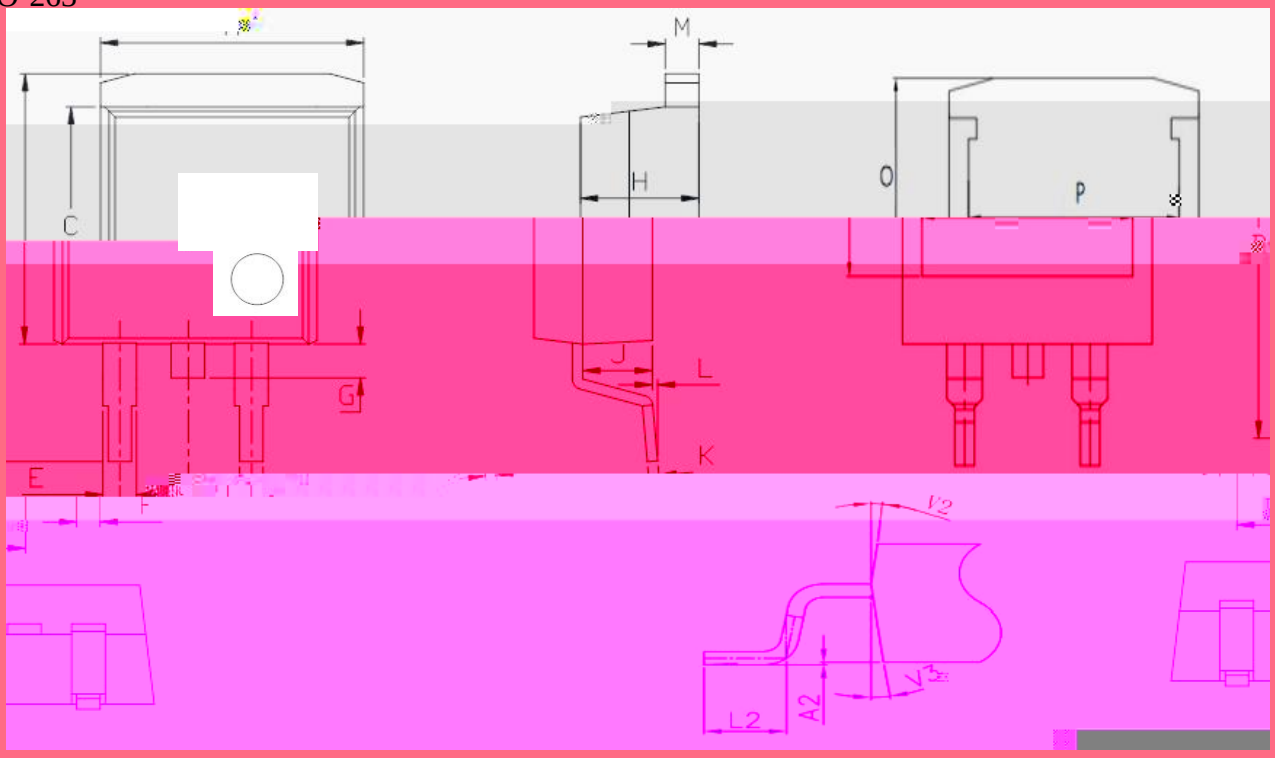


Fig 14. Transient thermal impedance, IGBT

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TO-263



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
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

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Date	Revision	Changes
2023-11-01	Rev 1.0	Release of the datasheet
2025-04-08	Rev 1.1	Character Update
2026-03-12	Rev 1.2	Update POD
2026-06-23	Rev 1.3	Update thermal

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