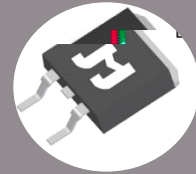
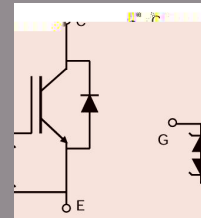


TO-263

- $V_{CE} = 650V$
- $I_C = 10A @ V_{CE} = 100V$
- $V_{CE(sat)} = 1.8V$



- High ruggedness performance
- 10 μ s short circuit capability
- Positive $V_{CE(sat)}$ temperature coefficient
- High efficiency for motor control
- Excellent current sharing in parallel operation
- RoHS compliant
- HBM 2000V



- Home appliances
- Motor drives

Type	Marking	Package	Packaging method
JJT10N65SCD	T1065SCD	TO-263	Tape and reel



CES	Collector-emitter voltage	650	V
GES	Gate-emitter voltage	±20	V
	Continuous collector current ($\rho_c=25$)	20	A
C	Continuous collector current ($\rho_c=100$)	10	A
CM	Pulsed collector current,		



V_{CES}	Collector-emitter breakdown voltage	$V_{GE}=0V, I_C=250\mu A$	650	-	-	V
I_{CES}	Collector-emitter leakage current	$V_{CE}=650V, V_{GE}=0V$	-	-	50	μA



($v_j=25$ unless otherwise specified)

F	Diode forward voltage	$I_F=10A$	-	1.4	-	V
		$I_F=10A, v_j=175$	-	1.2	-	V
t_{rr}	Diode reverse recovery time	$V_R=400V$ $I_F=10A$ $d I_F/d t = -750A/\mu s$	-	57	-	ns
I_{rrm}	Diode peak reverse recovery current		-	12	-	A
Q_{rr}	Diode reverse recovery charge		-	411	-	nC
t_{rr}	Diode reverse recovery time	$V_R=400V$ $I_F=10A$ $d I_F/d t = -750A/\mu s$ $v_j=175$	-	122	-	ns
I_{rrm}	Diode peak reverse recovery current		-	14	-	A
Q_{rr}	Diode reverse recovery charge		-	741	-	nC



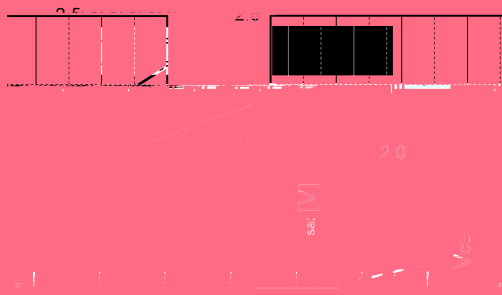


Fig 7. Typical C_{ESat} as a function of v_j

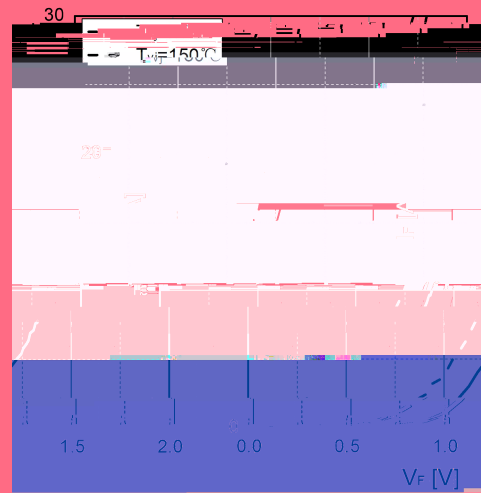


Fig 8. Typical F as a function of V_F

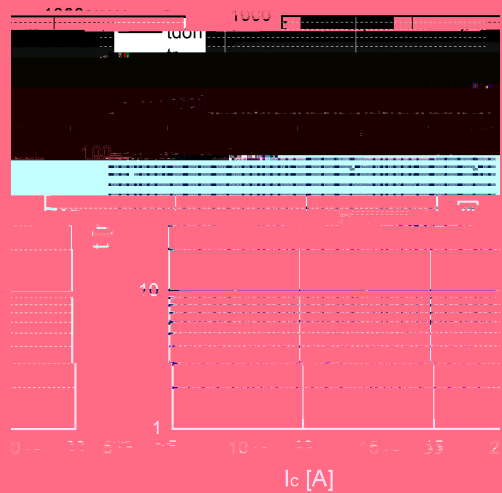


Fig 9. Typical switching time as a function of I_c

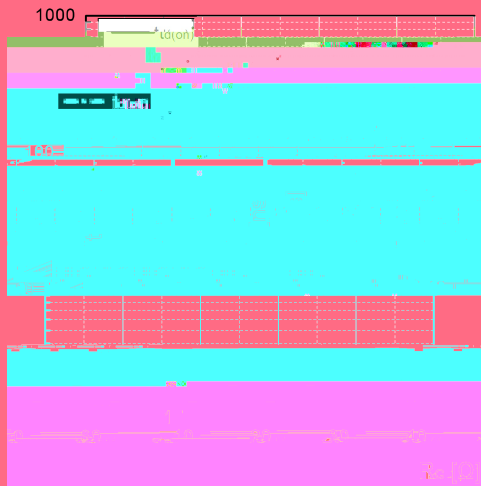


Fig 10. Typical switching times as a function of I_G

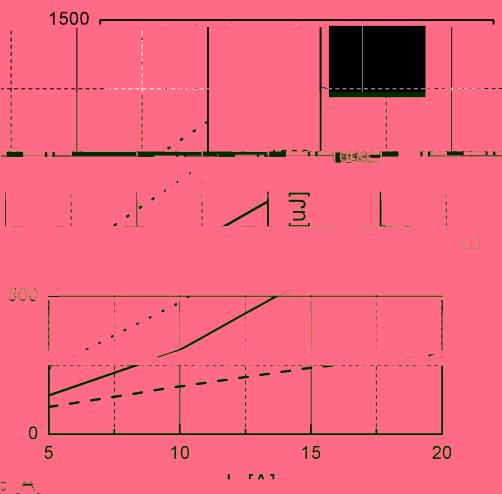


Fig 11. Typical switching energy losses as a function of I_c

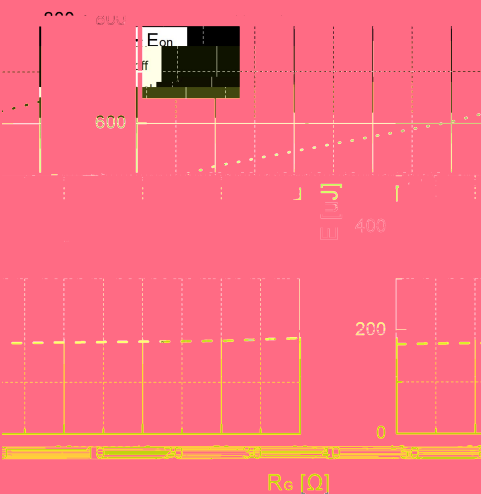


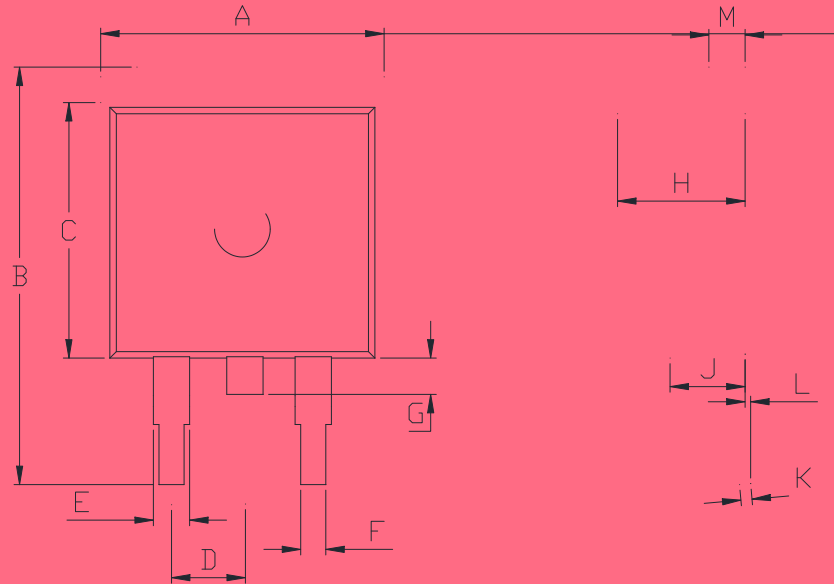
Fig 12. Typical switching energy losses as a function of I_G



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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	9.4	-	9.6	0.37	-	0.378
D	-	2.54	-	-	0.100	-
E	1.20	-	1.40	0.047	-	0.055
F	0.75	-	0.85	0.029	-	0.033
G	-	-	1.75	-	-	0.069
H	4.40	-	4.70	0.173	-	0.185
J	2.30	-	2.70	0.091	-	0.106
K	0.38	-	0.55	0.015	-	0.022
L	0	0.10	0.25	0	0.004	0.010
M	1.25	-	1.35	0.049	-	0.053

Date	Rev	
2024-02-06	Rev 1.0	Initial Rth graph
2025-02-06	Rev 1.1	Add Rth graph



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