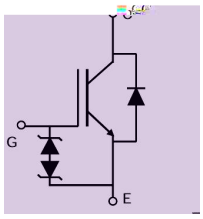
TO-263

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



- 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
- HBM 2000V



- Home appliances
- Motor drives

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

V_{CES}	Collector-emitter voltage	650	V
V_{GES}	Gate-emitter voltage	±20	V
I_C	Continuous collector current ($_C$=25)	20	A
	Continuous collector current ($_C$=100)	10	A
I_{CM}	Pulsed collector current,		

$_{CES}$	Collector-emitter breakdown voltage	$_{GE}$=0V, $_{C}$=250μA	650	-	-	V
$_{CES}$	Collector-emitter leakage current	$_{CE}$=650V, $_{GE}$=0V	-	-	50	μA

($_{vj}$=25 unless otherwise specified)

$_{F}$	Diode forward voltage	$_{F}$=10A	-	1.4	-	V
		$_{F}$=10A, $_{vj}$=175	-	1.2	-	V
$_{rr}$	Diode reverse recovery time	$_{R}$=400V $_{F}$=10A d $_{F}$/d =-750A/μs	-	57	-	ns
$_{rrm}$	Diode peak reverse recovery current		-	12	-	A
$_{rr}$	Diode reverse recovery charge		-	411	-	nC
$_{rr}$	Diode reverse recovery time	$_{R}$=400V $_{F}$=10A d $_{F}$/d =-750A/μs $_{vj}$=175	-	122	-	ns
$_{rrm}$	Diode peak reverse recovery current		-	14	-	A
$_{rr}$	Diode reverse recovery charge		-	741	-	nC

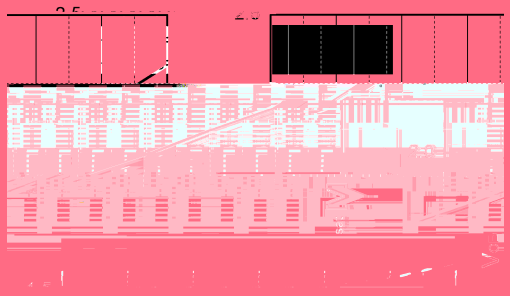


Fig 7. Typical $_{CEsat}$ as a function of $_{vj}$

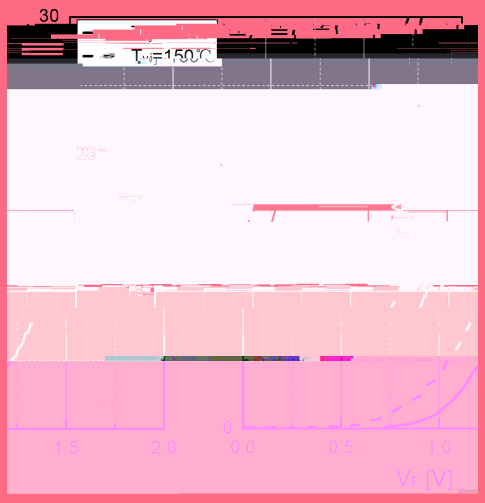


Fig 8. Typical $_{F}$ as a function of $_{F}$

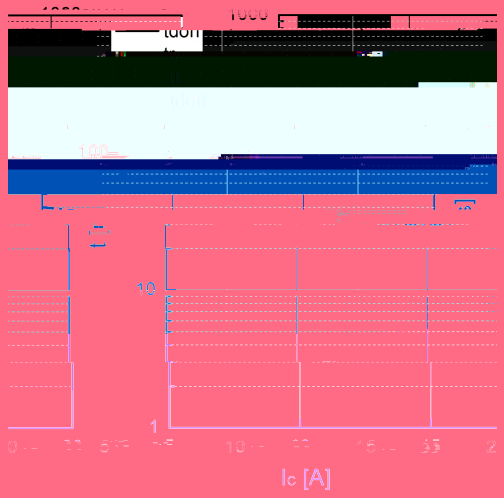


Fig 9. Typical switching time as a function of $_{C}$

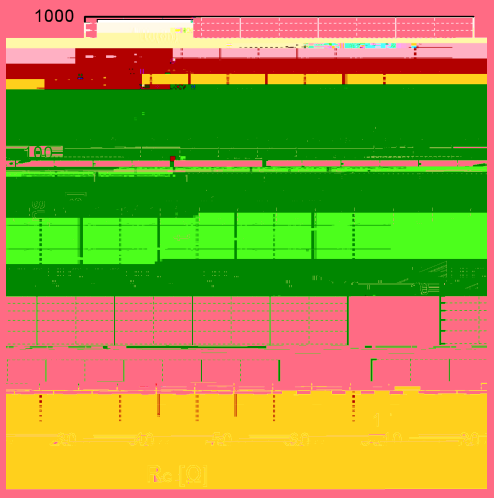


Fig 10. Typical switching times as a function of $_{G}$

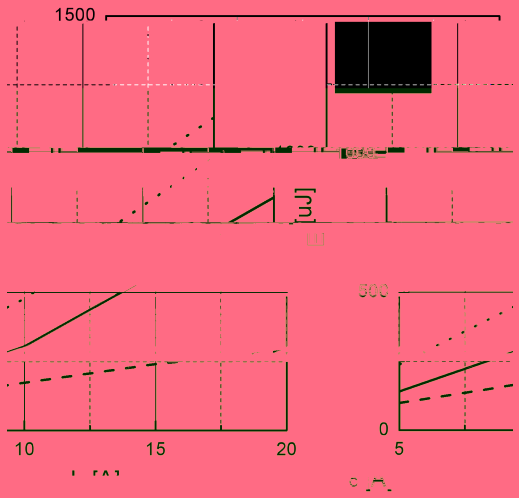


Fig 11. Typical switching energy losses as a function of $_{C}$

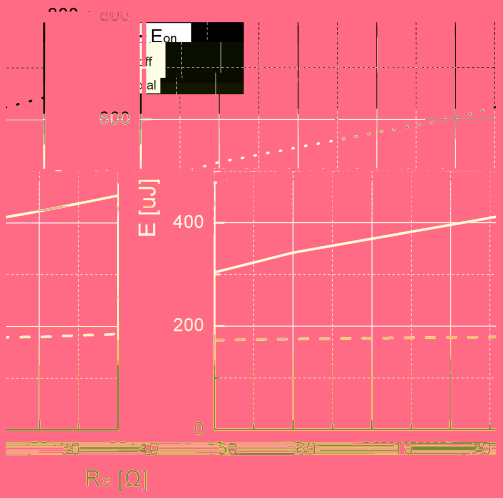
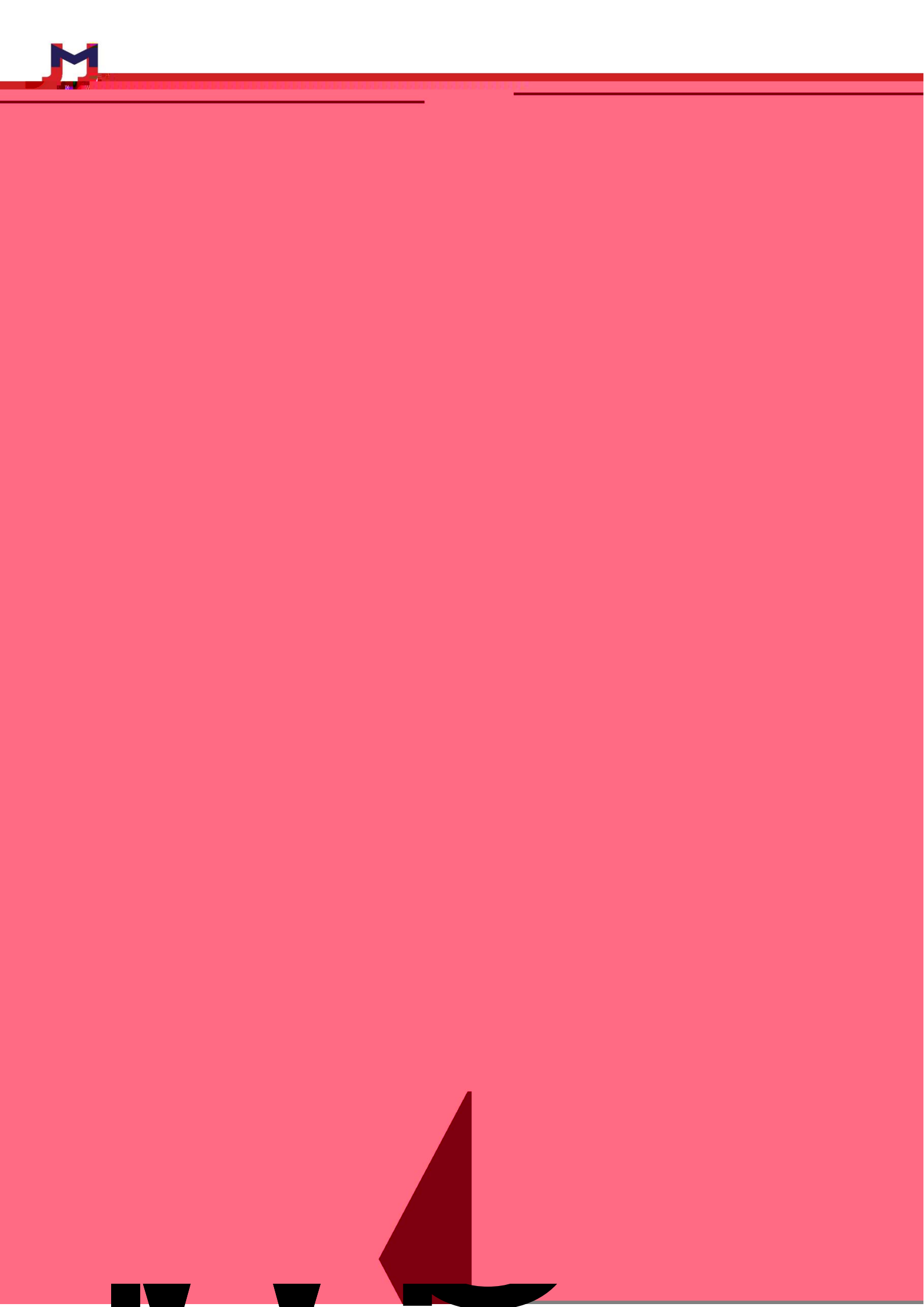
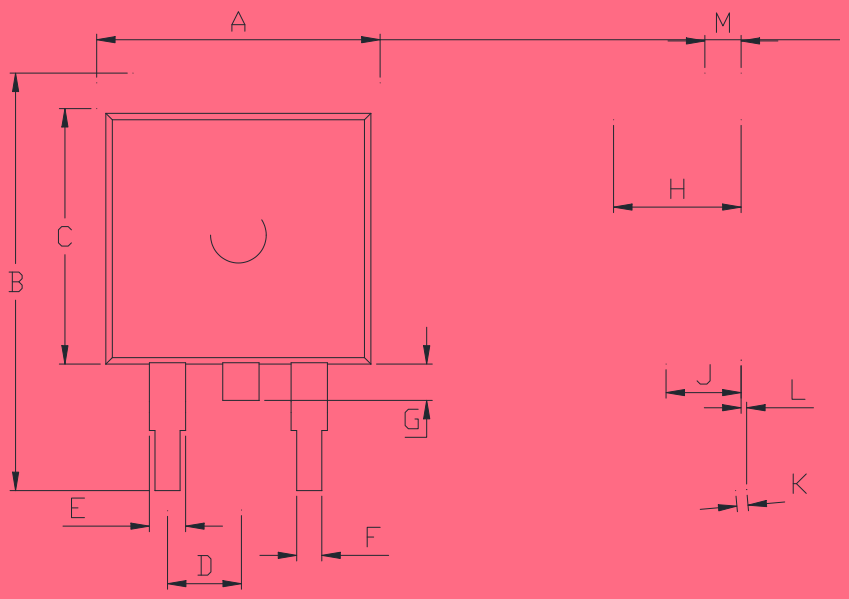


Fig 12. Typical switching energy losses as a function of $_{G}$



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	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-		
2025-02-06	Rev 1.1	Add Rth g

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