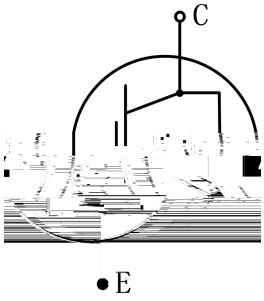
JJMICROELECTRONICS

TO-263

- $_{CE}$=650V
- $_{C}$=20A@ $_{C}$=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.



V_{CES}	Collector-emitter voltage	650	V
I_C			

$_{CES}$ Collector-emitter breakdown voltage $_{GE}$

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

$_{F}$	Diode forward voltage	$_{F}$=20A	-	1.6	-	V
		$_{F}$=20A, $_{vj}$=175	-	1.2	-	V
$_{rr}$	Diode reverse recovery time	$_{R}$=400V $_{F}$=20A d $_{F}$/d =-500A/μs	-	62	-	ns
$_{rrm}$	Diode peak reverse recovery current		-	12	-	A
$_{rr}$	Diode reverse recovery charge		-	472	-	nC
$_{rr}$	Diode reverse recovery time	$_{R}$=400V $_{F}$=20A d $_{F}$/d =-500A/μs $_{vj}$=175	-	90	-	ns
$_{rrm}$	Diode peak reverse recovery current		-	19	-	A
$_{rr}$	Diode reverse recovery charge		-	1130	-	nC

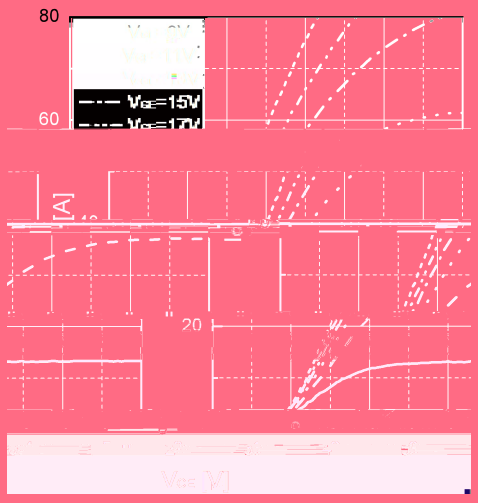


Fig 1. Typical output characteristic (vj=25)

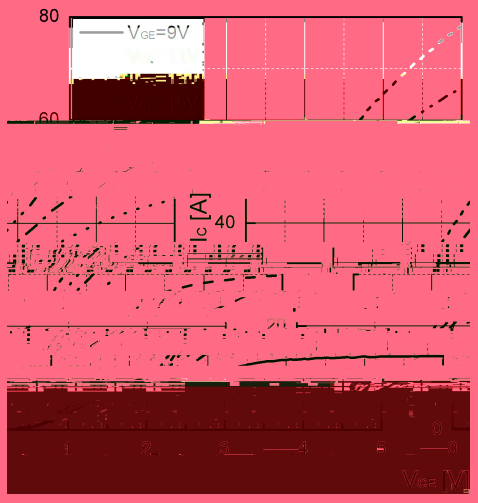


Fig 2. Typical output characteristic(vj=175)

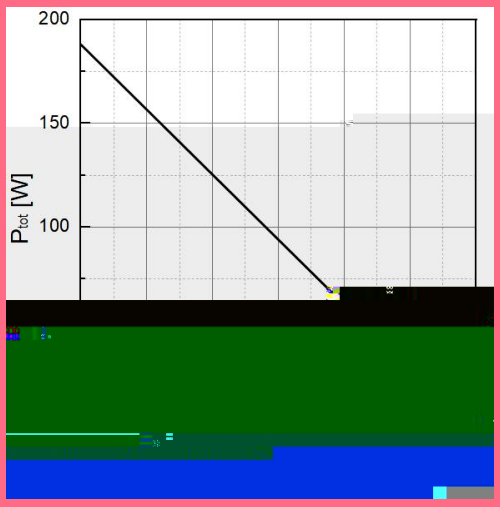


Fig 3. Power dissipation as a function of

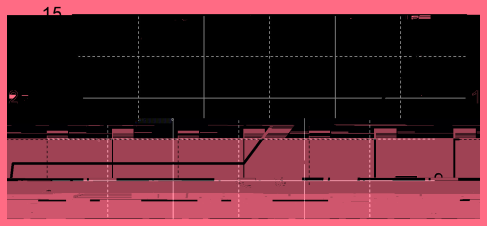


Fig 4. Typical Gate charge

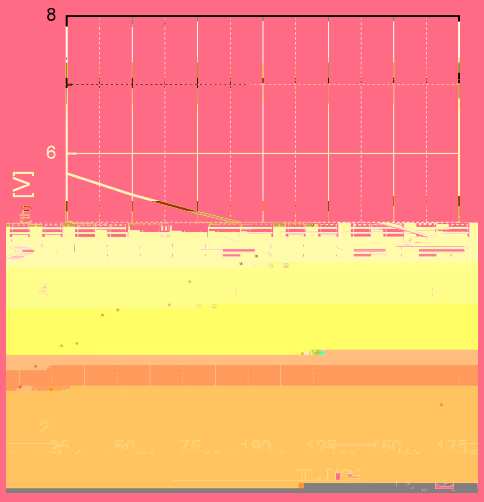


Fig 5. Typical GE(th) as a function of vj (C=1mA)

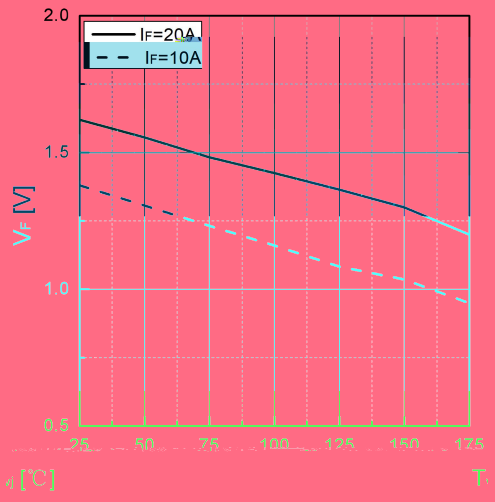


Fig 6. Typical F as a function of vj

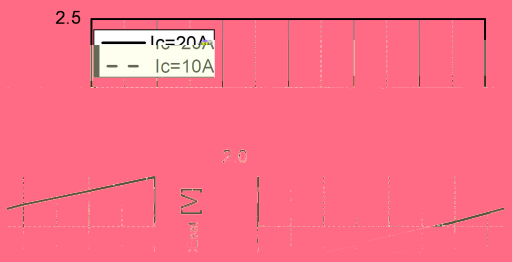


Fig 7. Typical $_{CEsat}$ as a function of $_{vj}$

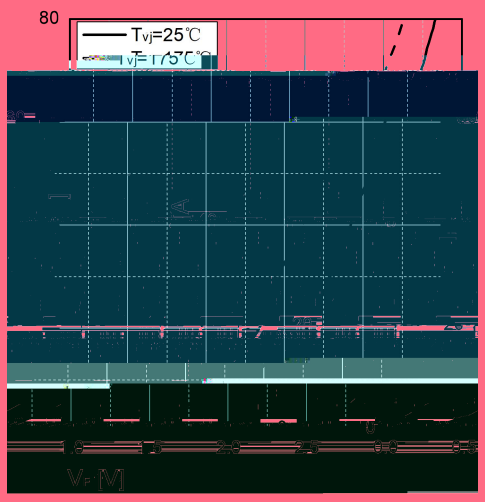
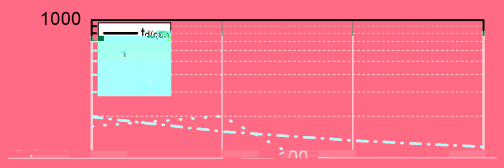


Fig 8. Typical $_{F}$ as a function of $_{F}$



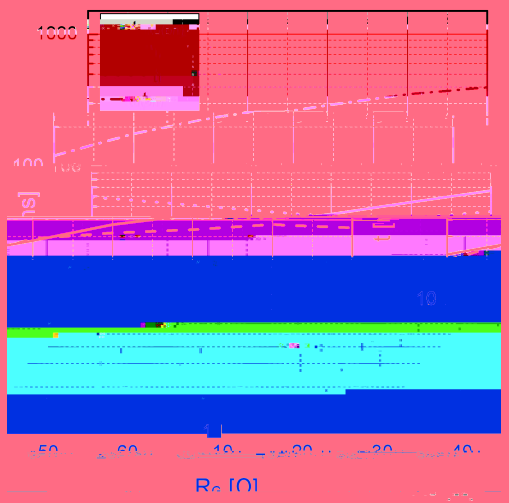
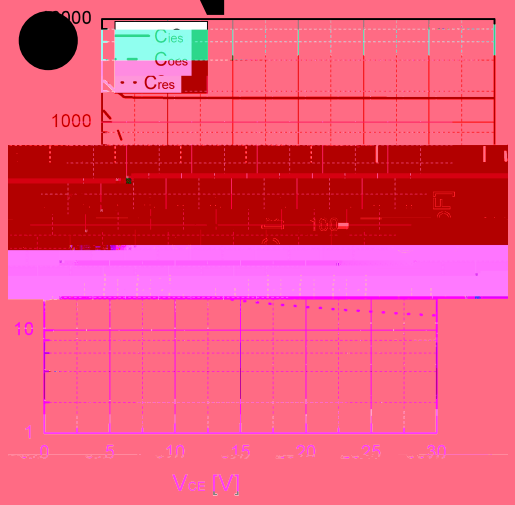
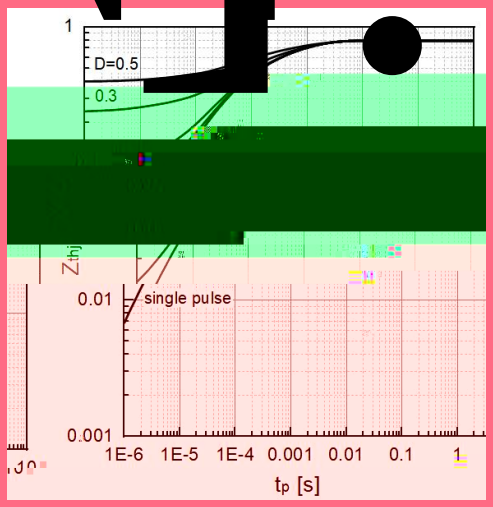


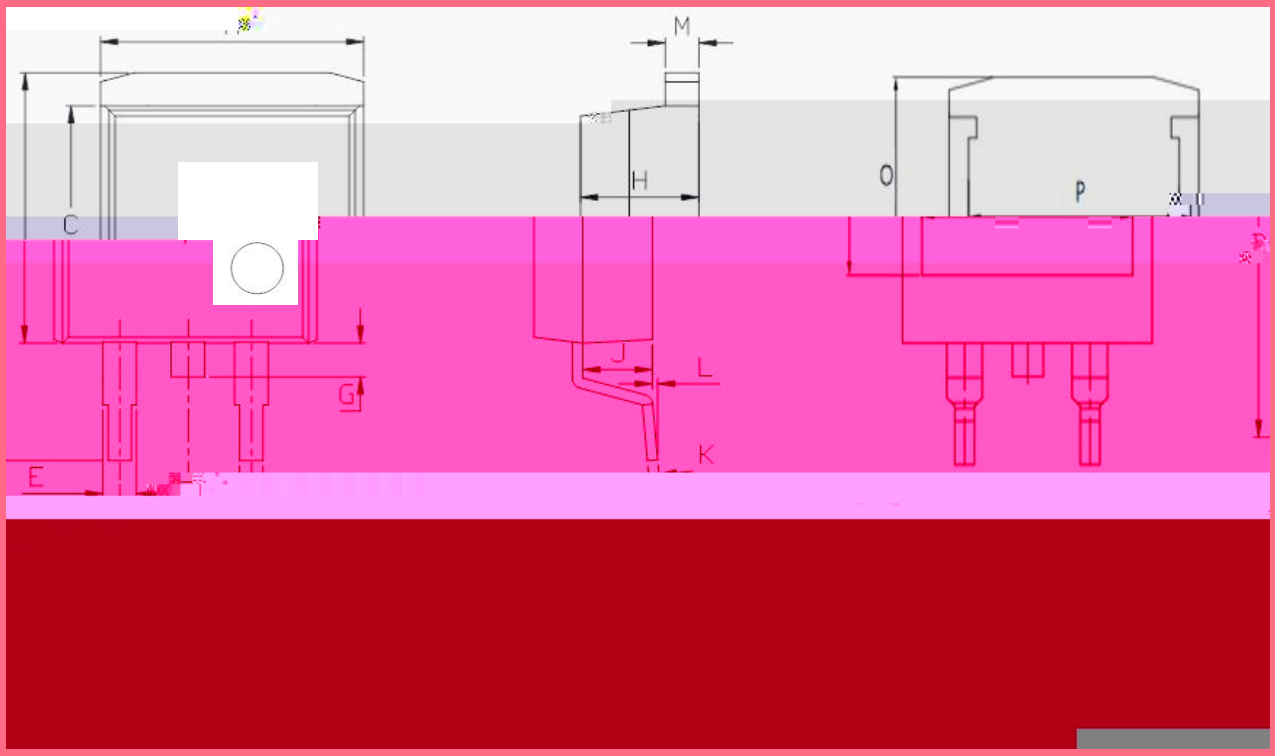
Fig 9. Typical switching time as a
, p





. Fig 13. Typical capacitance as a function of $_{CE}$
(f=1Mhz, $_{GE}$=/ ^{f}

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

Date		Changes
2024-05-20		te
2024-06-21		
2025-03-06		
2026-03-12	Rev	
2026-06-23	Rev 1.5	

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