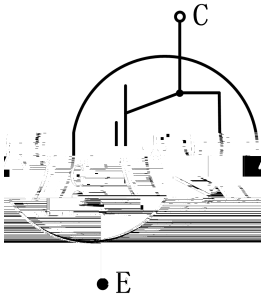
TO-263

- $_{CE}$=650V
- $_{C}$=30A@ $_{C}$=100
- $_{CE(sat)}$=1.7 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
JJT30N65SC	T3065SC	TO-263	Tape and reel

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$_{CES}$ Collector-emitter

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$_{CES}$	Collector-emitter breakdown voltage	$_{GE}$=0V, $_{C}$=250μA	650	-	-	V
$_{CES}$	Collector-emitter leakage current	$_{CE}$=650V, $_{GE}$=0V	-	-	50	μA
$_{GES}$	Gate leakage current, forward	$_{GE}$=20V, $_{CE}$=0V	-	-	100	nA
	Gate leakage current, reverse	$_{GE}$=-20V, $_{CE}$=0V	-	-	-100	nA
$_{GE(th)}$	Gate-emitter threshold voltage	$_{GE}$= $_{CE}$, $_{C}$=1mA	5.2	5.7	6.2	V
$_{CE(sat)}$	Collector-emitter saturation voltage	$_{GE}$=15V, $_{C}$=30A	-	1.7	-	V
		$_{GE}$=15V, $_{C}$=30A, $_{vj}$=175	-	2.2	-	V

$_{ies}$	Input capacitance	$_{CE}$=30V $_{GE}$=0V =1MHz	-	1978	-	pF
$_{oes}$	Output capacitance		-	100	-	pF
$_{res}$	Reverse transfer capacitance		-	23	-	pF
$_{g}$	Total gate charge	$_{CC}$=520V $_{GE}$=15V $_{C}$=30A	-			

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		I_F=30A	-	1.7	-	V
V_F	Diode forward voltage	I_F=30A, T_{vj}=175	-	1.4	-	V
t_{rr}	Diode reverse recovery time	V_R=400V I_F=30A di/dt=200A/μs	-	60	-	ns

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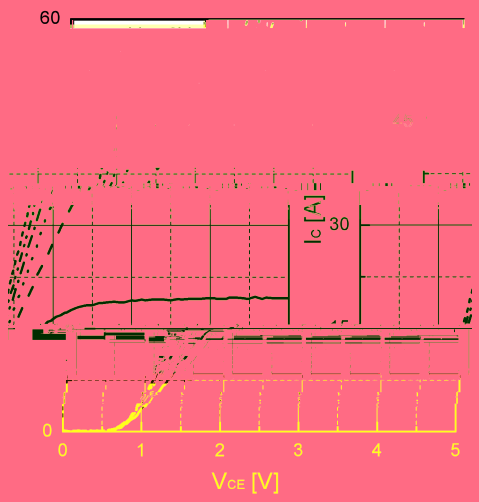


Fig 1. Typical output characteristic (vj=25)

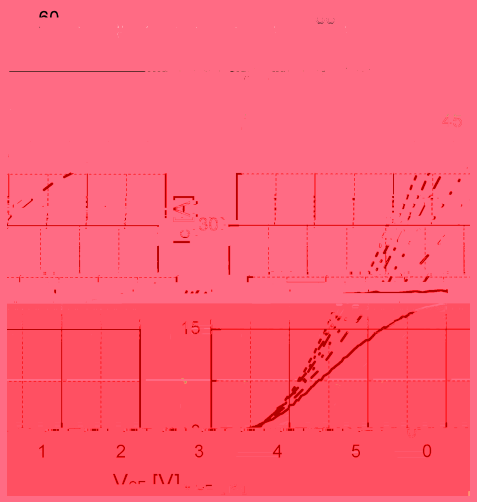


Fig 2. Typical output characteristic(vj=175)

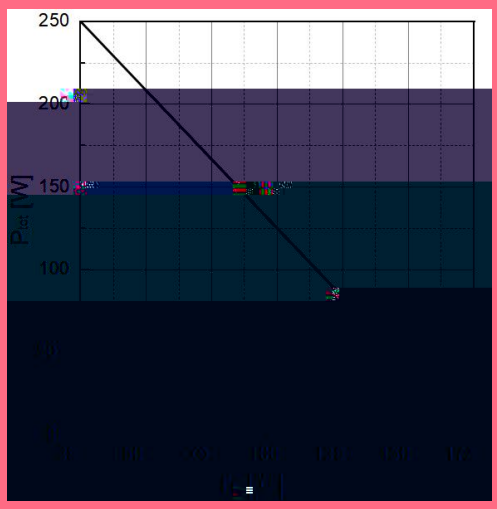


Fig 3. Power dissipation as a function of

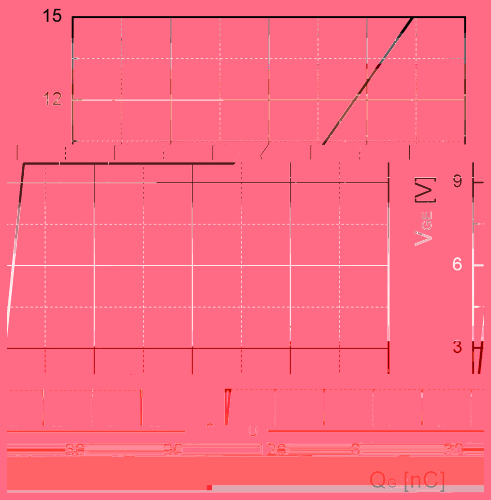


Fig 4. Typical Gate charge

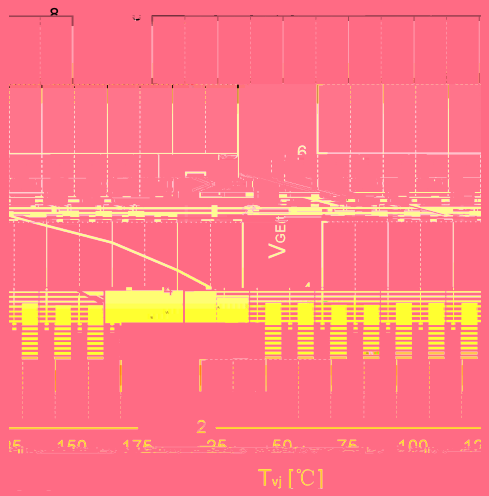


Fig 5. Typical GE(th) as a function of vj (C=1mA)

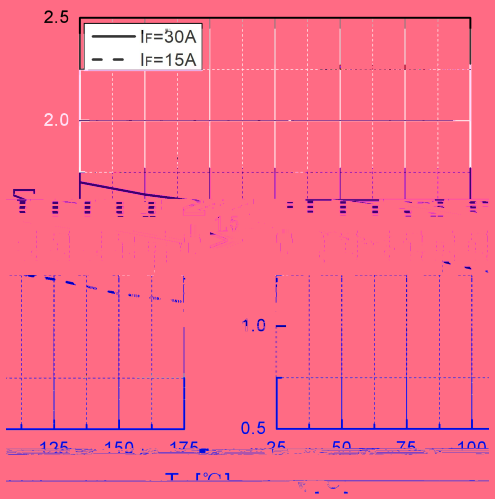
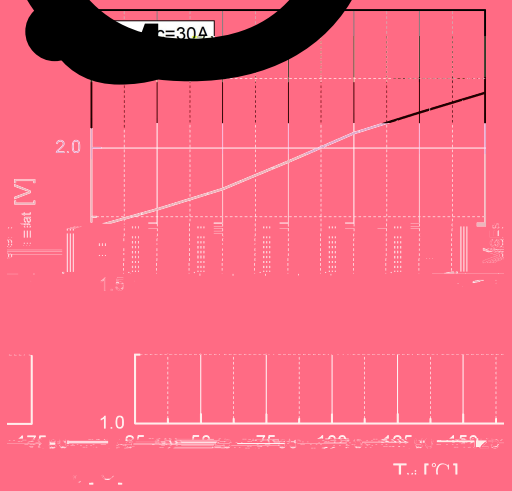


Fig 6. Typical F as a function of vj

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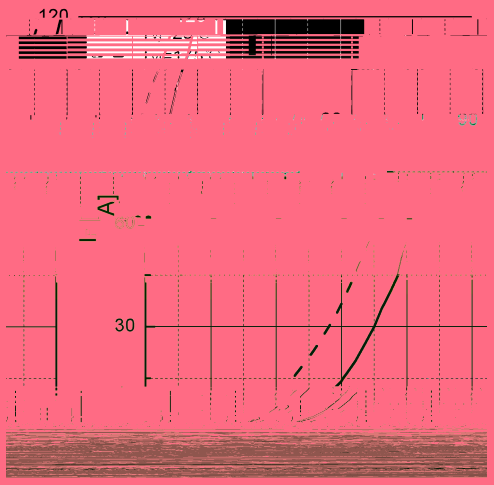


Fig 7. Typical V_{CEsat} as a function of T_j

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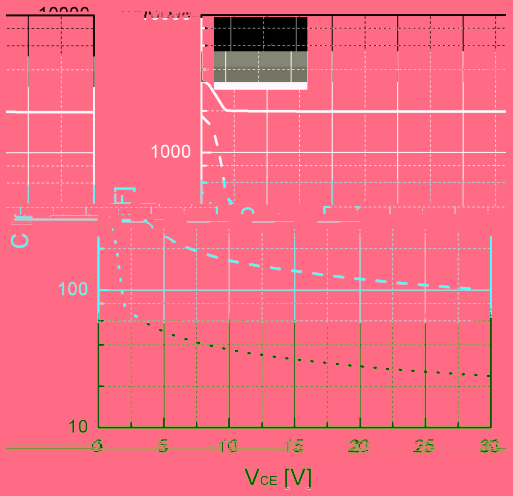


Fig 13. Typical capacitance as a function of $_{CE}$ (f=1Mhz, $_{GE}$=0V)

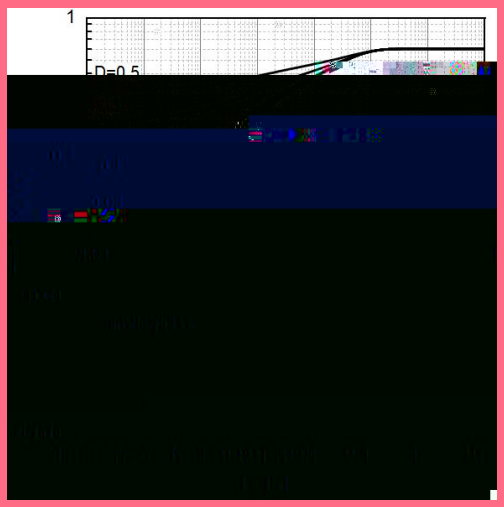
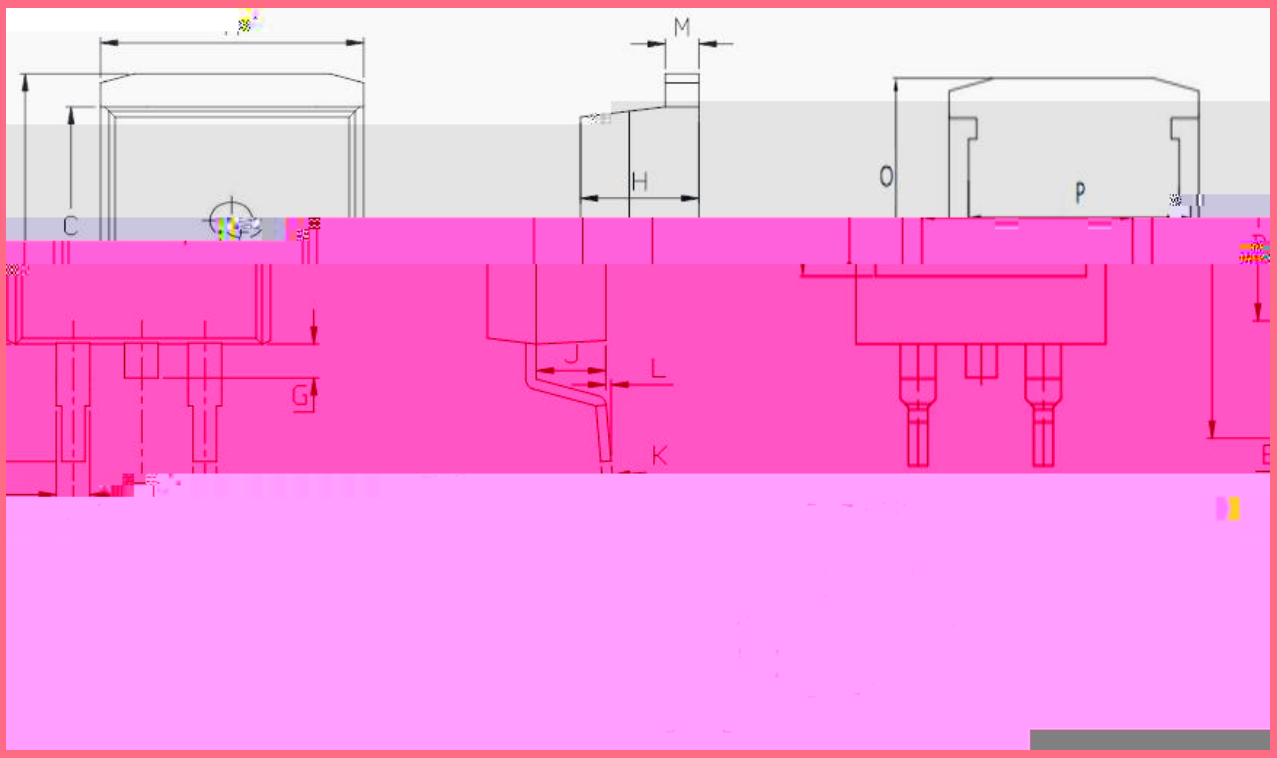


Fig 14. Transient thermal impedance, IGBT

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Dimensions

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

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