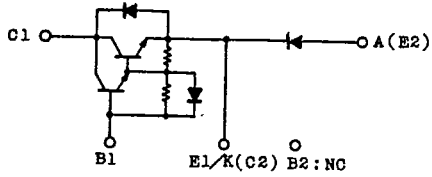


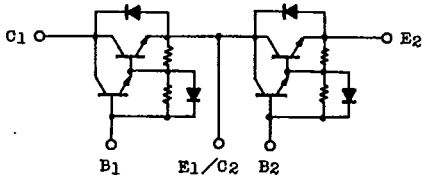


## SEMICONDUCTOR TECHNICAL DATA

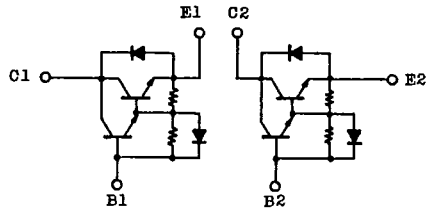
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MG100G2CL1  
MG100G2DL1



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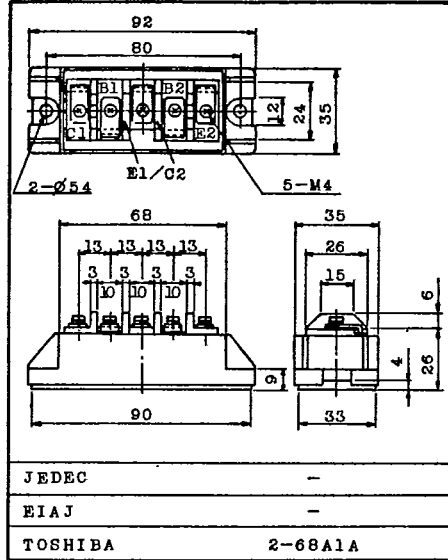


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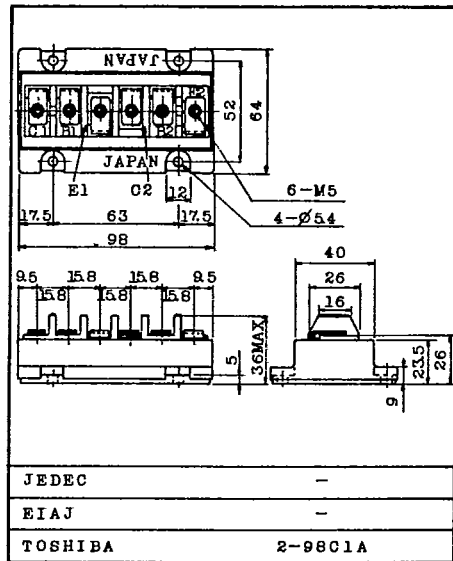
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Unit in mm



Weight : 205g

Unit in mm



Weight : 430g

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**SEMICONDUCTOR**  
TECHNICAL DATA

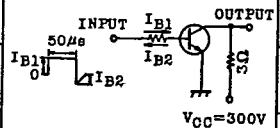
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MG100G2DL1

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	600	V
Collector-Emitter Voltage	V <sub>CE0</sub>	600	V
Collector-Emitter Sustaining Voltage	V <sub>CE0(SUS)</sub>	450	V
Emitter-Base Voltage	V <sub>EB0</sub>	6	V
Collector Current	DC	I <sub>C</sub>	100
	lms	I <sub>C</sub>	200
	DC	-I <sub>C</sub>	100
Base Current	I <sub>B</sub>	5	A
Collector Power Dissipation (Tc=25°C)	P <sub>C</sub>	400	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-40 ~ 125	°C
Isolation Voltage	V <sub>isol</sub>	2500(AC 1 Minute)	V
Screw Torque (Terminal/Mounting)	-	20/30	kg.cm

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CB0</sub>	V <sub>CB</sub> =600V, I <sub>E</sub> =0	-	-	2.0	mA
Emitter Cut-off Current	I <sub>EB0</sub>	V <sub>EB</sub> =6V, I <sub>C</sub> =0	-	-	200	mA
Collector-Emitter Sustaining Voltage	V <sub>CE0(SUS)</sub>	I <sub>C</sub> =0.5A L=40mH	450	-	-	V
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =100A	100	-	-	-
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =100A, I <sub>B</sub> =2A	-	-	2.0	V
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>		-	-	2.7	V
Emitter-Collector Voltage	V <sub>ECO</sub>	I <sub>E</sub> =100A, I <sub>B</sub> =0	-	-	1.6	V
Reverse Recovery Time	t <sub>rr</sub>	-I <sub>C</sub> =100A, V <sub>EB</sub> =3V V <sub>CC</sub> =300V, di/dt=100A/μs	-	-	2.0	μs
Collector Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> =50V, I <sub>E</sub> =0 f=1MHz	-	1000	-	pF
Switching Time	Turn-on Time	t <sub>on</sub>	-	-	2.0	μs
	Storage Time	t <sub>stg</sub>	-	-	12	
	Fall Time	t <sub>f</sub>	I <sub>B1</sub> =-I <sub>B2</sub> =2A DUTY CYCLE=0.5%	-	-	
Thermal Resistance (Junction to Case)	R <sub>th(j-c)</sub>	Transistor	-	-	0.31	°C/W
		Diode	-	-	1.3	



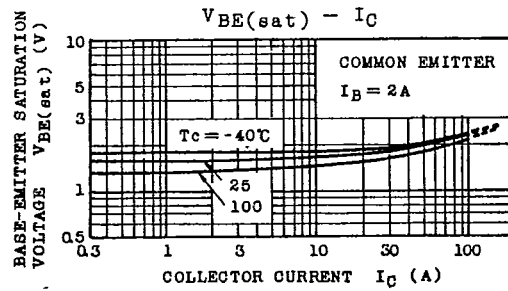
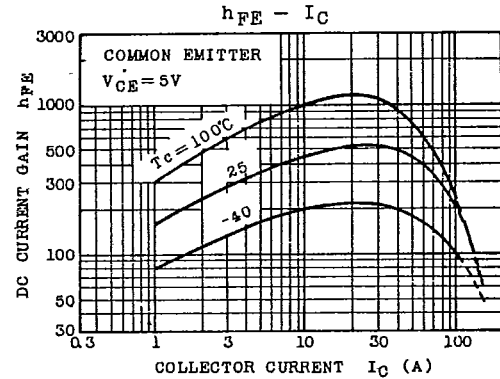
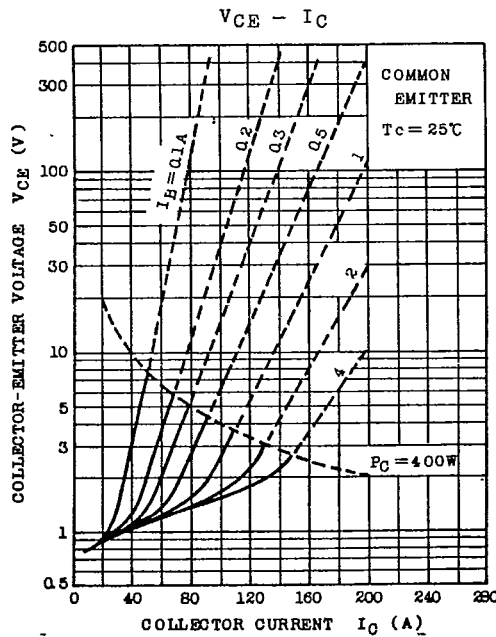
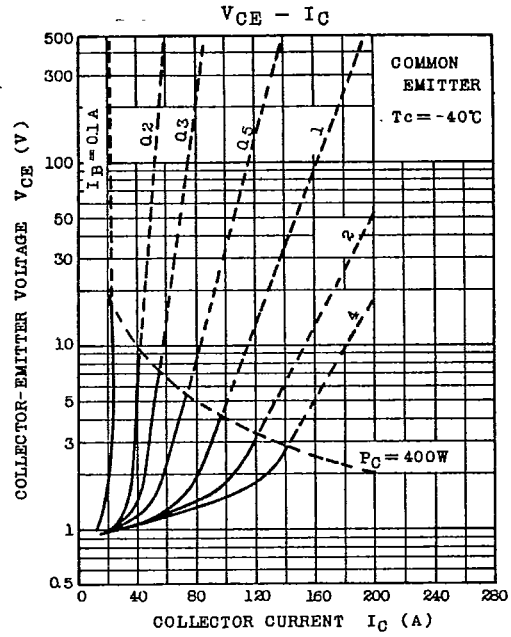
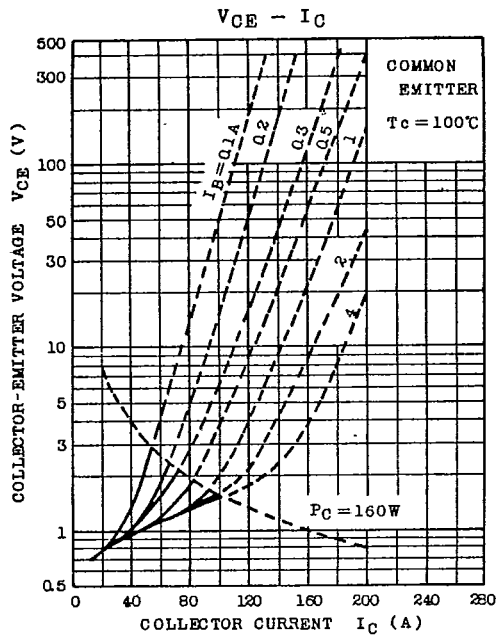
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TECHNICAL DATA

MG100G1JL1  
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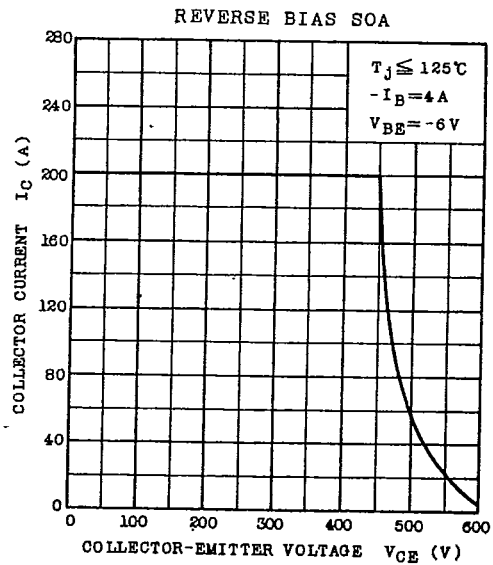
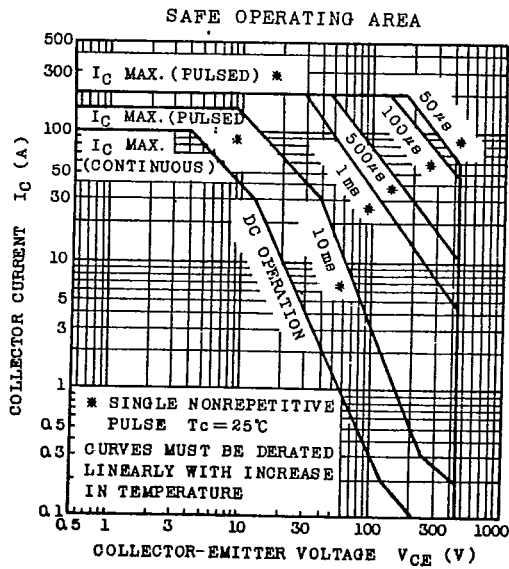
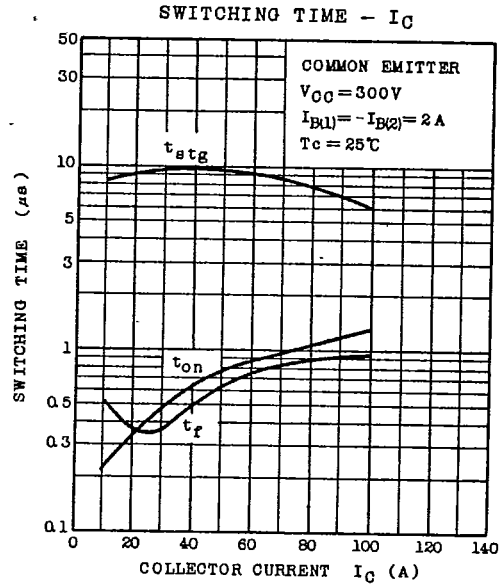
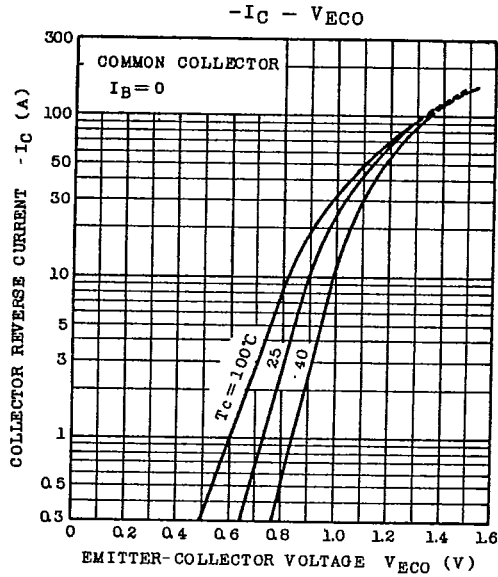


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SEMICONDUCTOR  
TECHNICAL DATA

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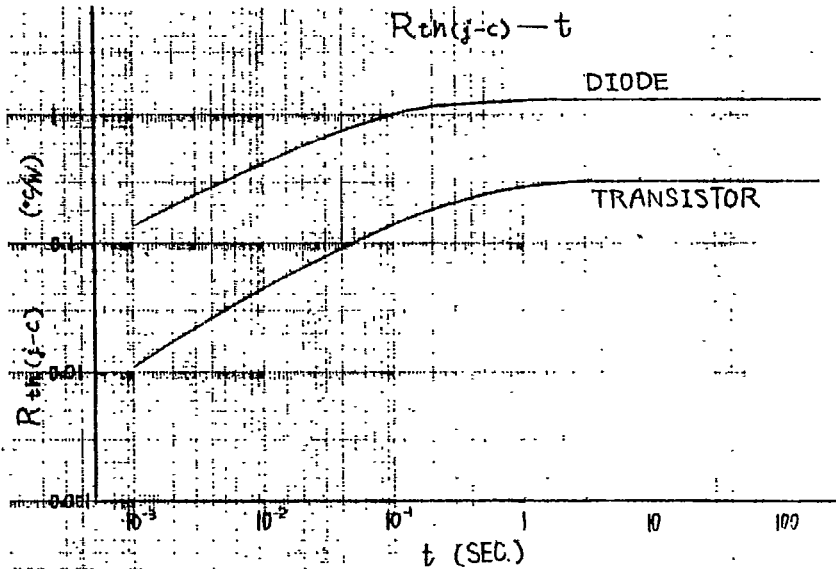
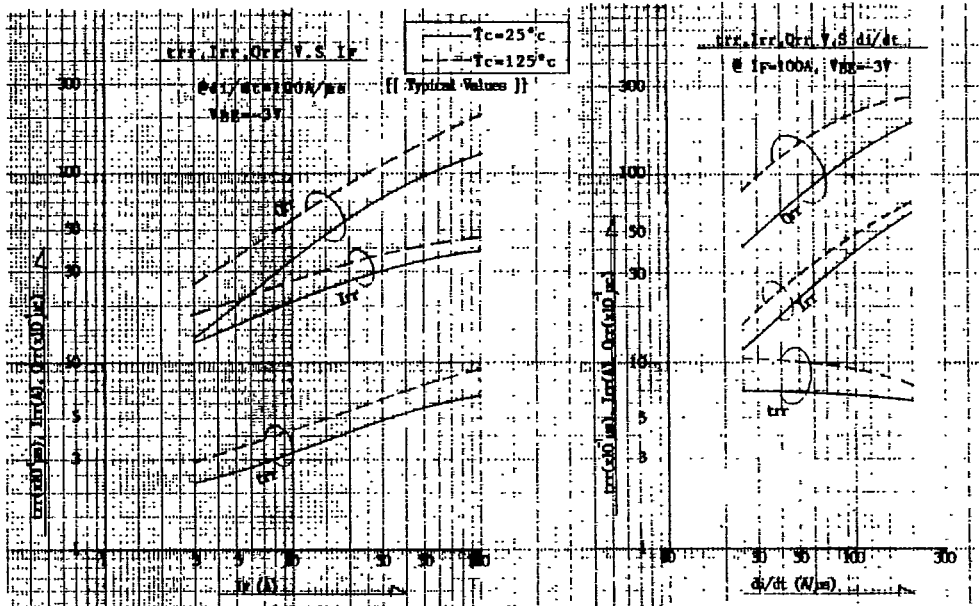


SEMICONDUCTOR  
TECHNICAL DATA

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