

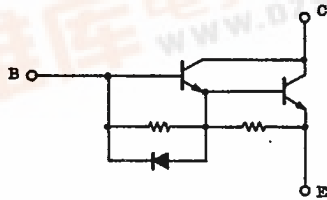
9097250 TOSHIBA (DISCRETE/OPTO)

90D 16219 DT-33-35

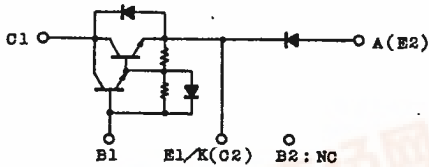


SEMICONDUCTOR
TECHNICAL DATA

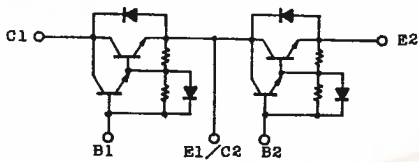
- MG 30 G 1 B L 3
- MG 30 G 1 J L 1
- MG 30 G 2 C L 3
- MG 30 G 2 D L 1
- MG 30 G 6 E L 1



MG30G1BL3

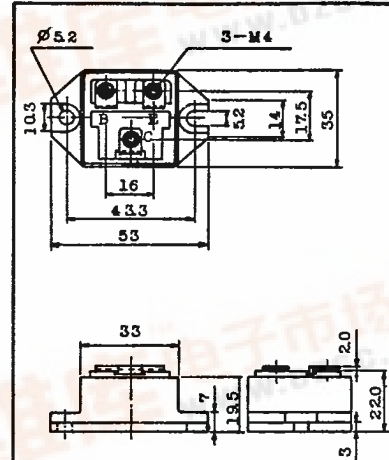


MG30G1JL1



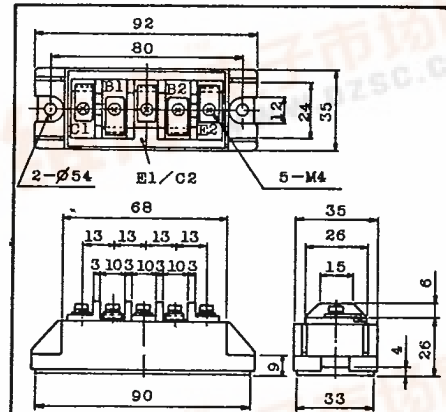
MG30G2CL3

Unit in mm



JEDEC	-
EIAJ	-
TOSHIBA	2-33C1A

Weight : 86g



JEDEC	-
EIAJ	-
TOSHIBA	2-68A1A

Weight : 210g

TOSHIBA CORPORATION

GT1A2A



9097250 TOSHIBA (DISCRETE/OPTO)

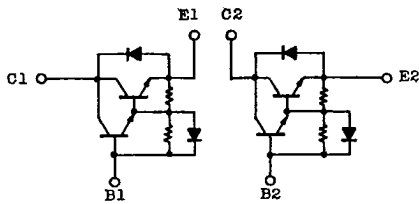
90D 16220 DT-33-35



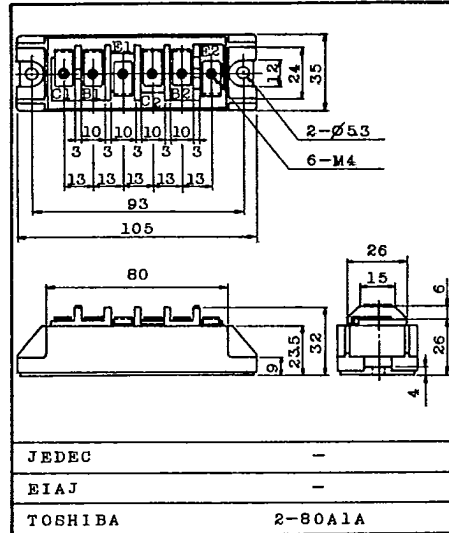
SEMICONDUCTOR
TECHNICAL DATA

- MG30G1BL3
- MG30G1JL1
- MG30G2CL3
- MG30G2DL1
- MG30G6EL1

MG30G2DL1

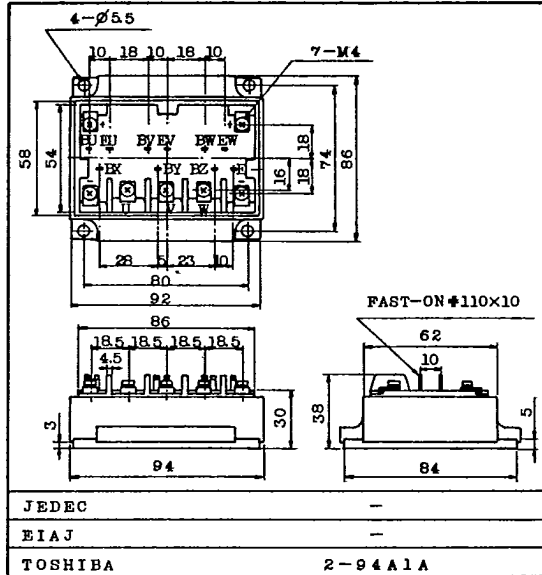
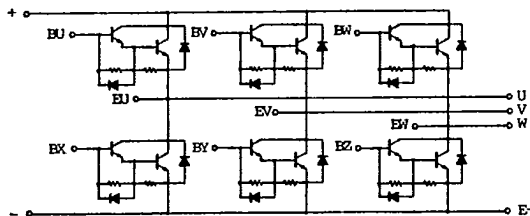


Unit in mm



Weight : 245g

MG30G6EL1



Weight : 600g

TOSHIBA CORPORATION

GT1A2A

9097250 TOSHIBA (DISCRETE/OPTO)



SEMICONDUCTOR

TECHNICAL DATA

90D 16221 DT-33-35

MG30G1BL3

MG30G1JL1

MG30G2CL3

MG30G2DL1

MG30G6EL1

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V _{CB0}	600	V
Collector-Emitter Sustaining Voltage		V _{CEX(SUS)}	600	V
Collector-Emitter Sustaining Voltage		V _{CEO(SUS)}	450	V
Emitter-Base Voltage		V _{EBO}	6	V
Collector Current	DC	I _C	30	A
	1ms	I _{CP}	60	A
Forward Current	DC	I _F	30	A
	1ms	I _{FM}	60	A
Base Current		I _B	2	A
Collector Power Dissipation (Tc=25°C)		P _C	250	W
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-40 ~ 125	°C
Isolating Voltage		V _{isol}	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 _{CB0}	V _{CB} =600V, I _E =0	-	-	1.0	mA
Emitter Cut-off Current		I _{EBO}	V _{EB} =6V, I _C =0	-	-	200	mA
Collector-Emitter Sustaining Voltage		V _{CEO(SUS)}	I _C =0.5A, L=40mH	450	-	-	V
DC Current Gain		h _{FE}	V _{CE} =5V, I _C =30A	100	-	-	
Collector-Emitter Saturation Voltage		V _{CE(sat)}	I _C =30A, I _B =0.6A	-	-	2.0	V
Base-Emitter Saturation Voltage		V _{BE(sat)}		-	-	2.5	V
Switching Time	Turn-on Time	t _{on}		-	-	1.0	µs
	Storage Time	t _{stg}		-	-	12	
	Fall Time	t _f		I _{B1} =-I _{B2} =0.6A DUTY CYCLE=0.5%	-	-	
Forward Voltage		V _F	I _F =30A, I _B =0	-	-	1.5	V
Reverse Recovery Time		t _{rr}	I _F =30A, V _{BE} =-3V di/dt=100A/µs	-	-	2.0	µs
Thermal Resistance	R _{th(j-c)}	Transistor		-	-	0.5	°C/W
		Diode		-	-	1.8	

TOSHIBA CORPORATION

GT1A2A

9097250 TOSHIBA (DISCRETE/OPTO)

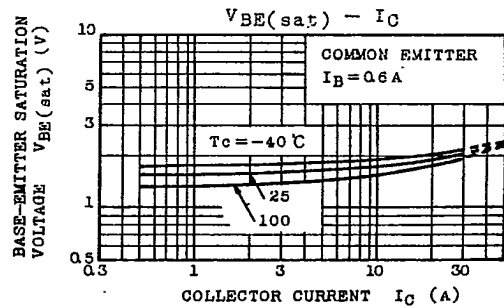
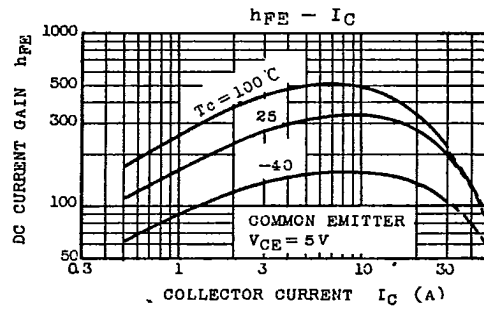
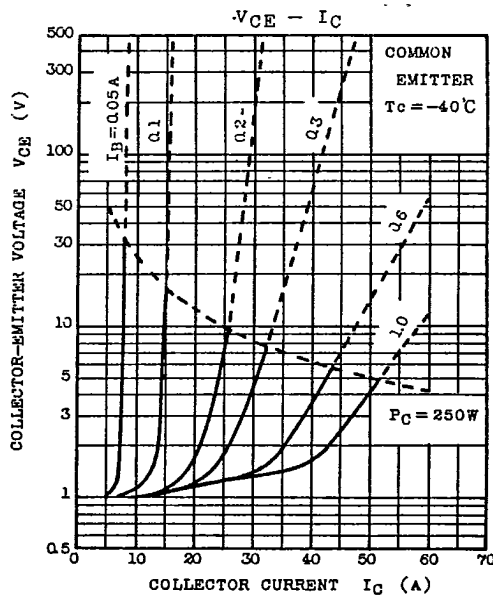
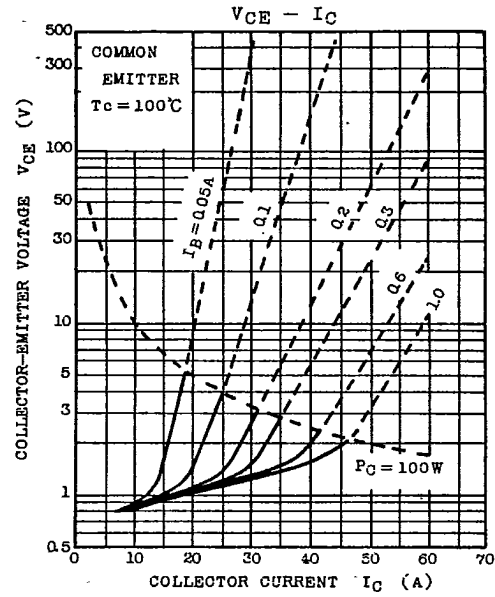
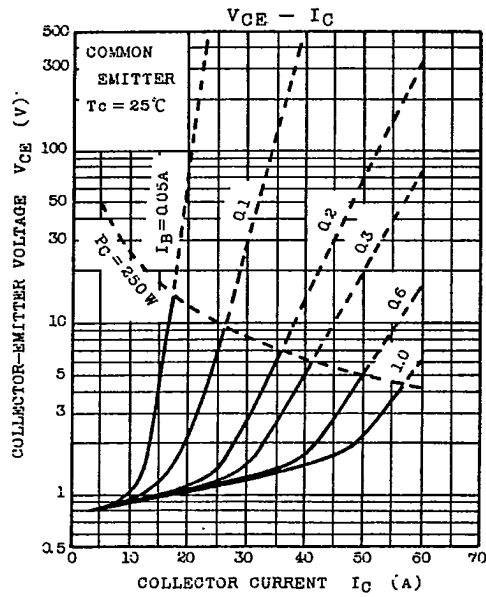
90D 16222 D T-33-35



SEMICONDUCTOR

TECHNICAL DATA

- M G 3 0 G 1 B L 3
- M G 3 0 G 1 J L 1
- M G 3 0 G 2 C L 3
- M G 3 0 G 2 D L 1
- M G 3 0 G 6 E L 1



TOSHIBA CORPORATION

GT1A2

9097250 TOSHIBA (DISCRETE/OPTO)

90D 16223

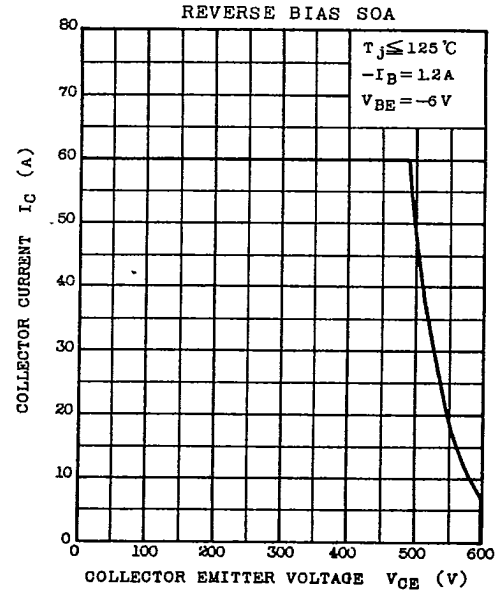
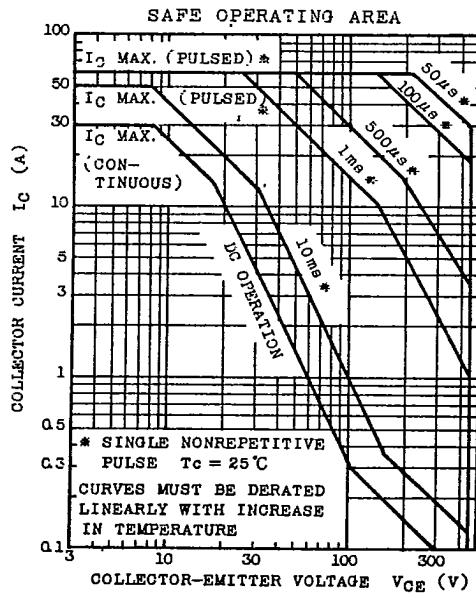
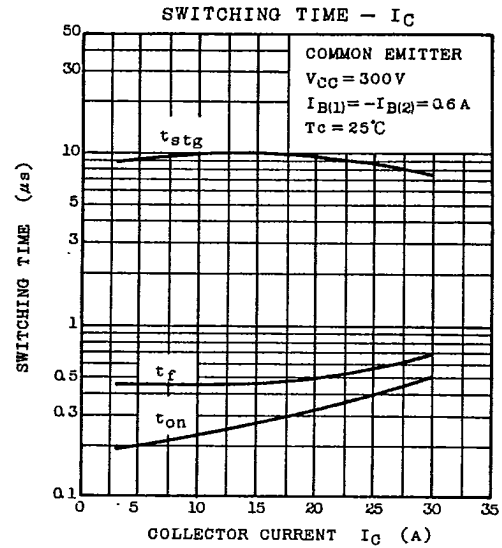
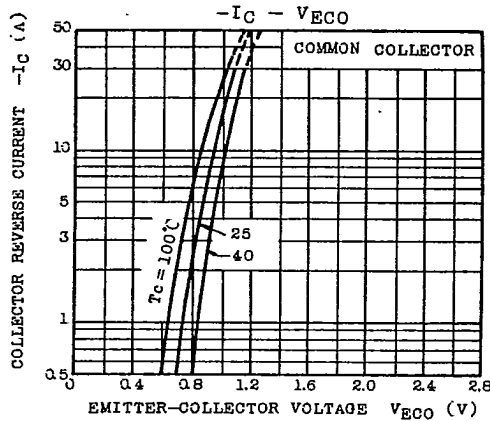
DT-33-35



SEMICONDUCTOR

TECHNICAL DATA

MG 30G1BL3
 MG 30G1JL1
 MG 30G2CL3
 MG 30G2DL1
 MG 30G6EL1



TOSHIBA CORPORATION

GT1A2

9097250 TOSHIBA (DISCRETE/OPTO)

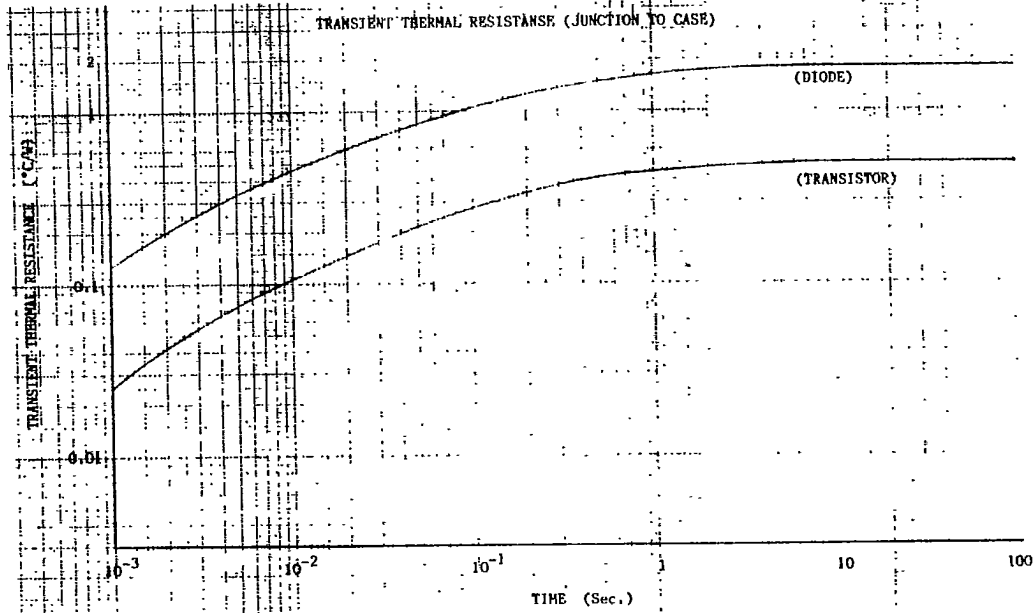
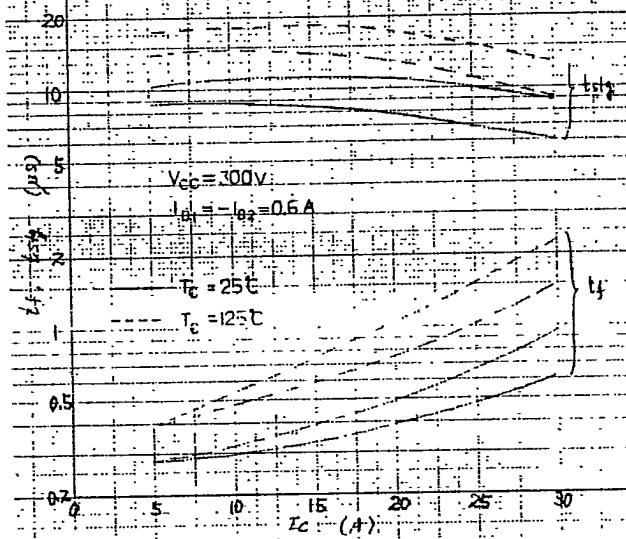
90D 16224

DT-33-35



SEMICONDUCTOR
TECHNICAL DATA

- MG30G1BL3
- MG30G1JL1
- MG30G2CL3
- MG30G2DL1
- MG30G6EL1



TOSHIBA CORPORATION

GT1A2A

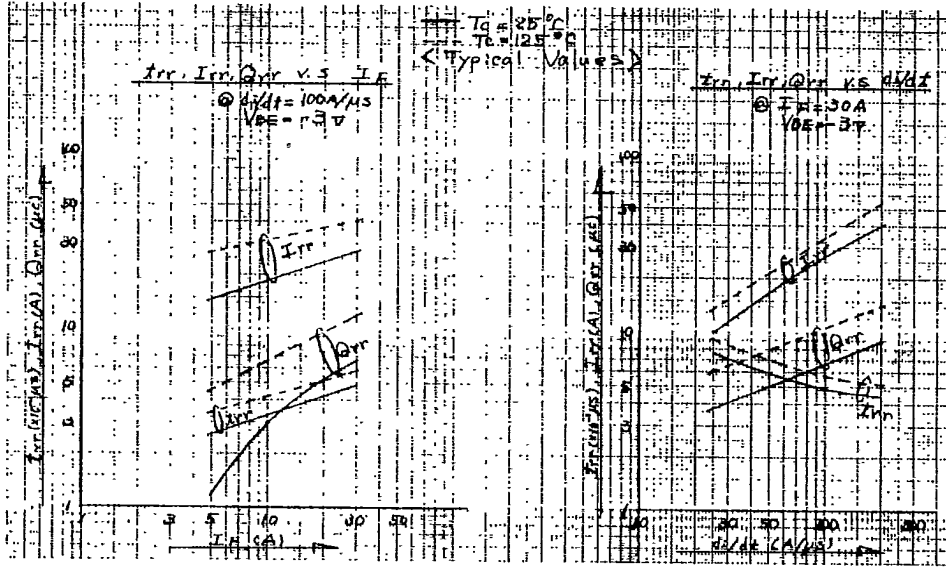
9097250 TOSHIBA (DISCRETE/OPTO)

90D 16225 DT-33-35



SEMICONDUCTOR TECHNICAL DATA

- MG30G1BL3
- MG30G1JL1
- MG30G2CL3
- MG30G2DL1
- MG30G6EL1



TOSHIBA CORPORATION

GT1A2A