

9097250 TOSHIBA (DISCRETE/OPTO)

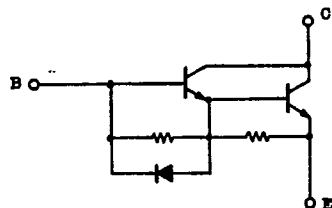
90D 16230 DT-33-35



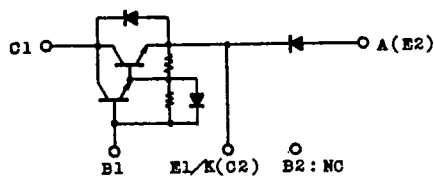
SEMICONDUCTOR

TECHNICAL DATA

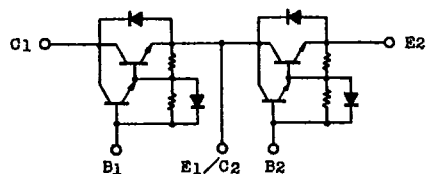
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 MG50G2DL1
 MG50G6EL1



MG50G1BL3

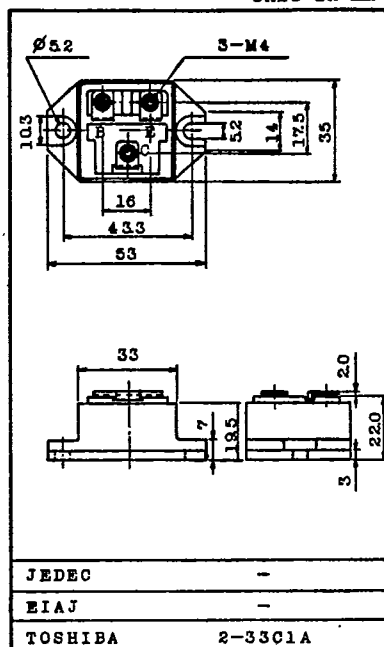


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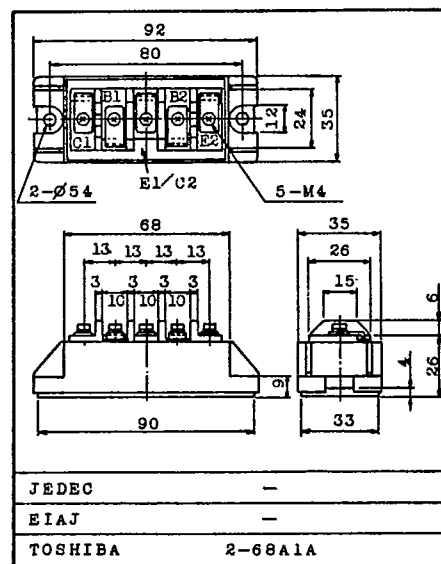


MG50G2CL3

Unit in mm



Weight : 86g



Weight : 210g

TOSHIBA CORPORATION

GT1A2A

9097250 TOSHIBA (DISCRETE/OPTO)

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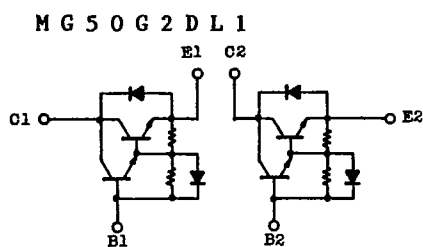
DT-33-35



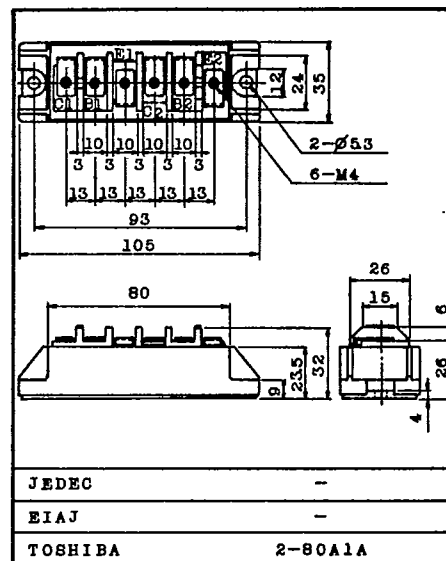
SEMICONDUCTOR

TECHNICAL DATA

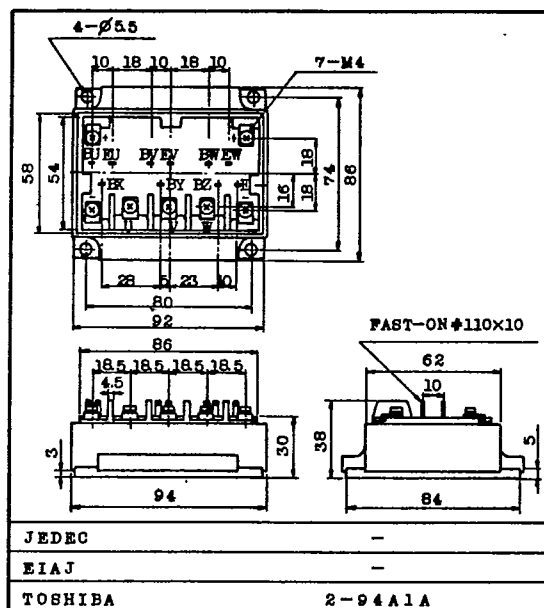
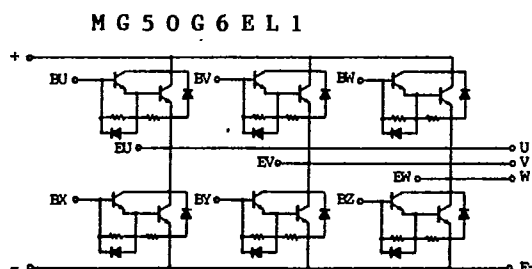
MG50G1BL3
 MG50G1JL1
 MG50G2CL3
 MG50G2DL1
 MG50G6EL1



Unit in mm



Weight : 245g



Weight : 600g

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9097250 TOSHIBA (DISCRETE/OPTO)

90D 16232 DT-33-35



SEMICONDUCTOR

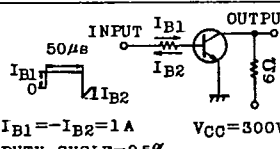
TECHNICAL DATA

M G 5 0 G 1 B L 3
 M G 5 0 G 1 J L 1
 M G 5 0 G 2 C L 3
 M G 5 0 G 2 D L 1
 M G 5 0 G 6 E L 1

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V _{CB0}	600	V
Collector-Emitter Voltage		V _{CE0}	600	V
Collector-Emitter Sustaining Voltage		V _{CE0} (SUS)	450	V
Emitter-Base Voltage		V _{EB0}	6	V
Collector Current	DC	I _C	50	A
	1ms	I _C	100	A
	DC	-I _C	50	A
Base Current		I _B	3	A
Collector Power Dissipation (Tc=25°C)		P _C	300	W
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-40~125	°C
Isolation 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 _{EB0}	V _{EB} =6V, I _C =0	-	-	200	mA
Collector-Emitter Sustaining Voltage		V _{CE0} (SUS)	I _C =0.5A, L=40mH	450	-	-	V
DC Current Gain		h _{FE}	V _{CE} =5V, I _C =50A	100	-	-	
Collector-Emitter Saturation Voltage		V _{CE} (sat)	I _C =50A, I _B =1A	-	-	2.0	V
Base-Emitter Saturation Voltage		V _{BE} (sat)		-	-	2.5	V
Emitter-Collector Voltage		V _{ECO}	I _E =50A, I _B =0	-	-	1.5	V
Reverse Recovery Time		t _{rr}	-I _C =50A, V _{EB} =3V, V _{CE} =300V	-	-	2.0	μs
Switching Time	Turn-on Time	t _{on}	 INPUT I_{B1} 50μs OUTPUT I_{B2} I_{B1}=-I_{B2}=1A V_{CC}=300V DUTY CYCLE=0.5%	-	-	1.0	μs
	Storage Time	t _{stg}		-	-	12	
	Fall Time	t _f		-	-	2.0	
Thermal Resistance (Junction to Case)		R _{th(j-c)}	Transistor	-	-	0.41	°C/W
			Diode	-	-	1.3	

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SEMICONDUCTOR

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TECHNICAL DATA

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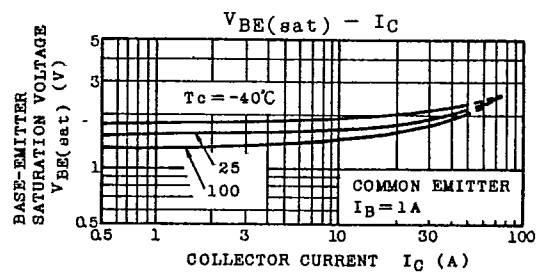
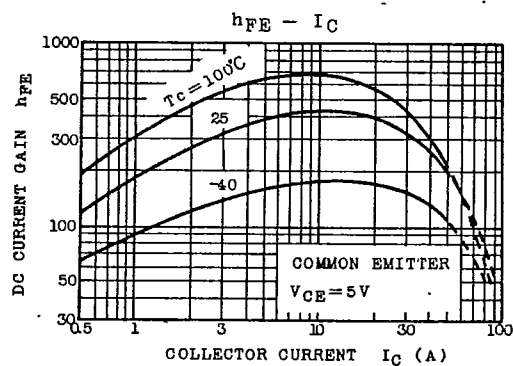
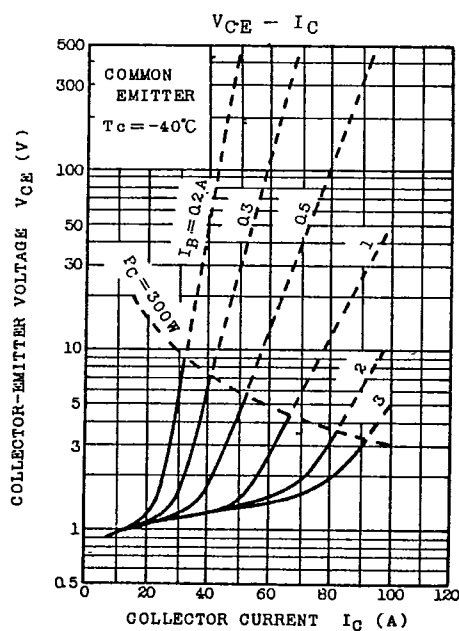
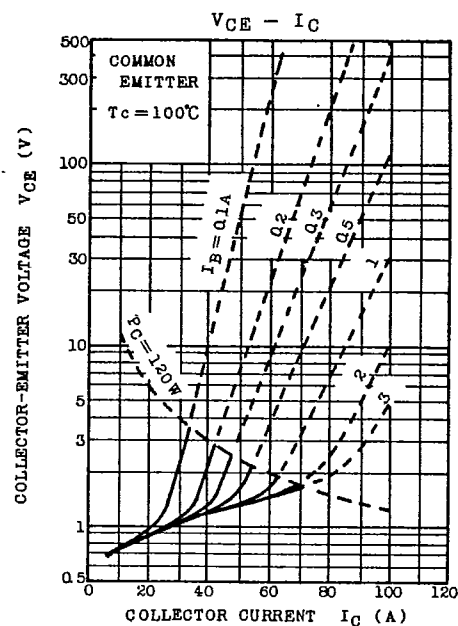
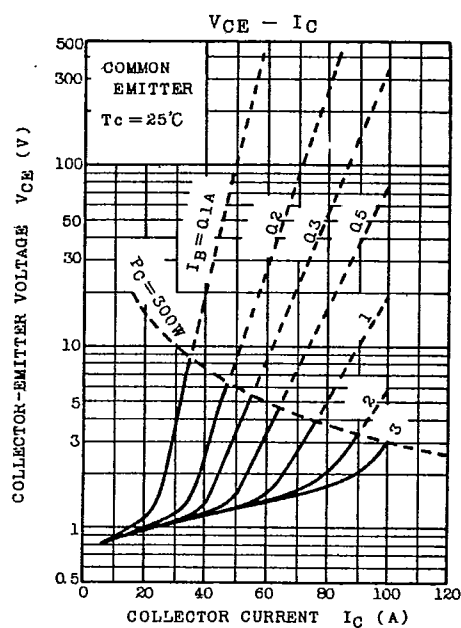
MG 50 G 1 B L 3

MG 50 G 1 J L 1

MG 50 G 2 C L 3

MG 50 G 2 D L 1

MG 50 G 6 E L 1



TOSHIBA CORPORATION

GT1A2

9097250 TOSHIBA (DISCRETE/OPTO)

90D 16234

DT-33-35



SEMICONDUCTOR

TECHNICAL DATA

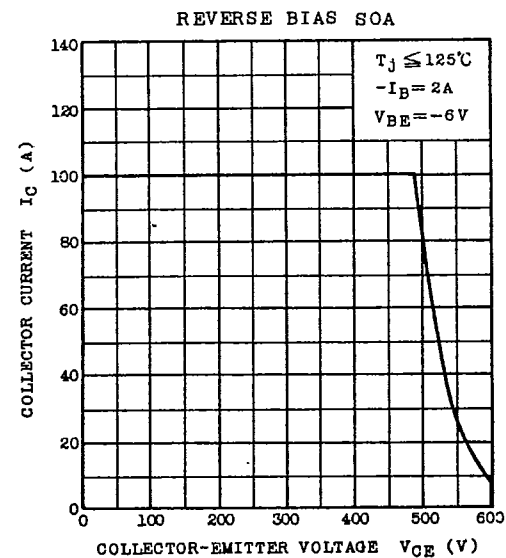
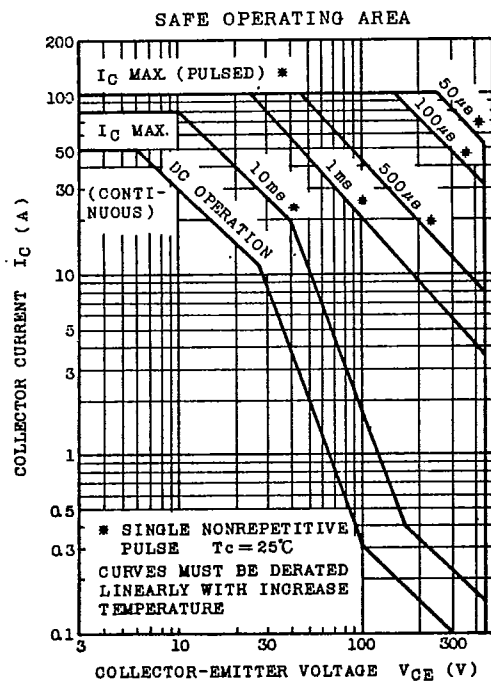
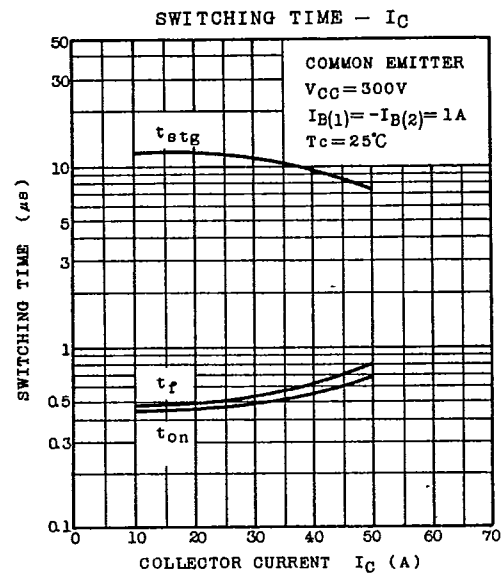
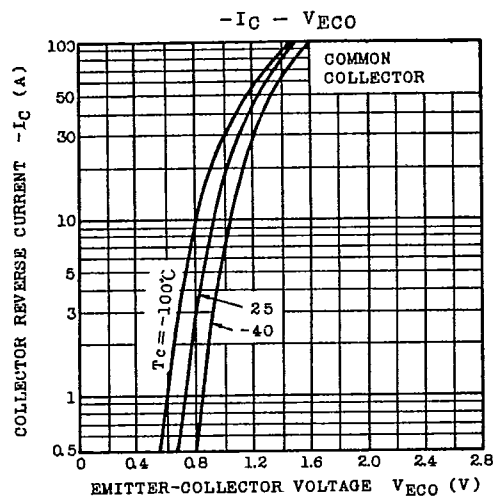
MG50G1BL3

MG50G1JL1

MG50G2CL3

MG50G2DL1

MG50G6EL1



TOSHIBA CORPORATION

GT1A2

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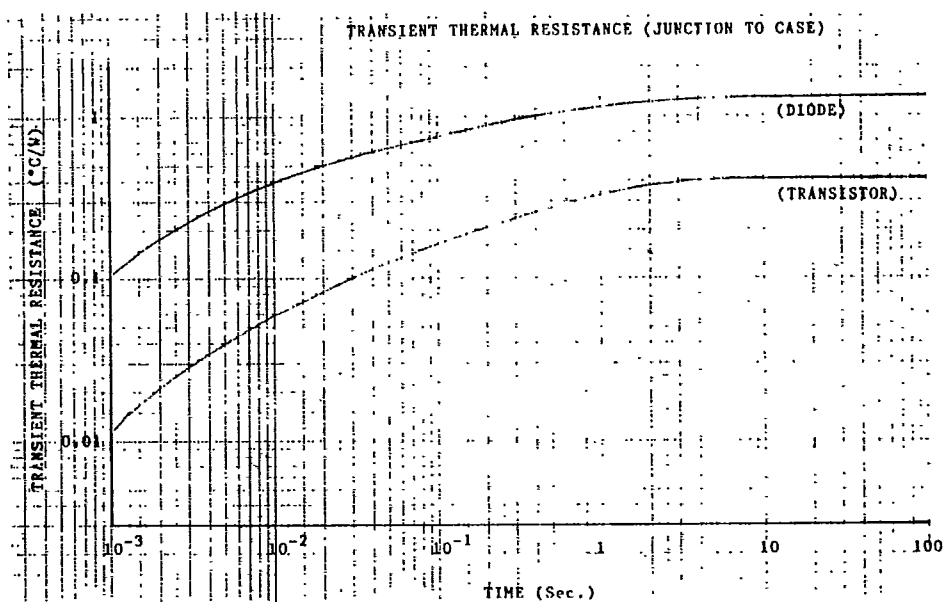
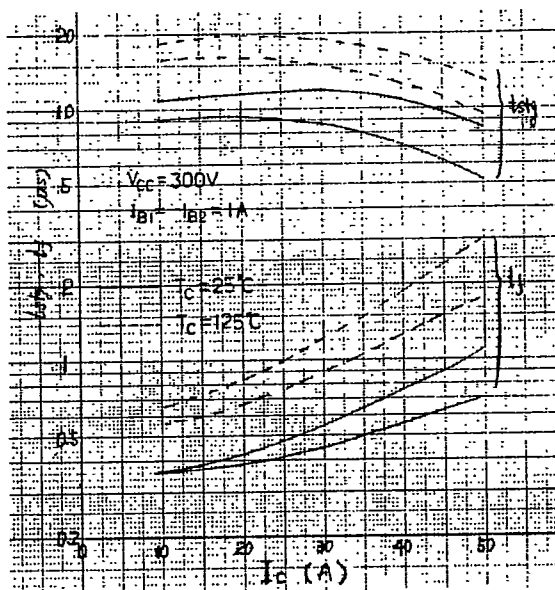
90D 16235 DT-33-35



SEMICONDUCTOR

TECHNICAL DATA

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MG50G1JL1
MG50G2CL3
MG50G2DL1
MG50G6EL1



TOSHIBA CORPORATION

GT1A2A

9097250 TOSHIBA (DISCRETE/OPTO)

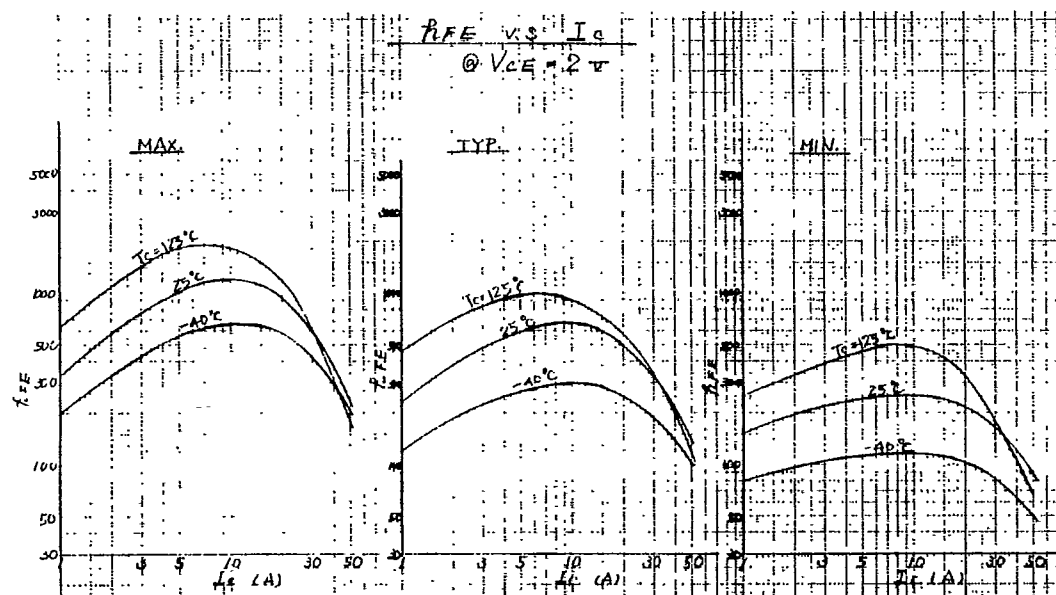
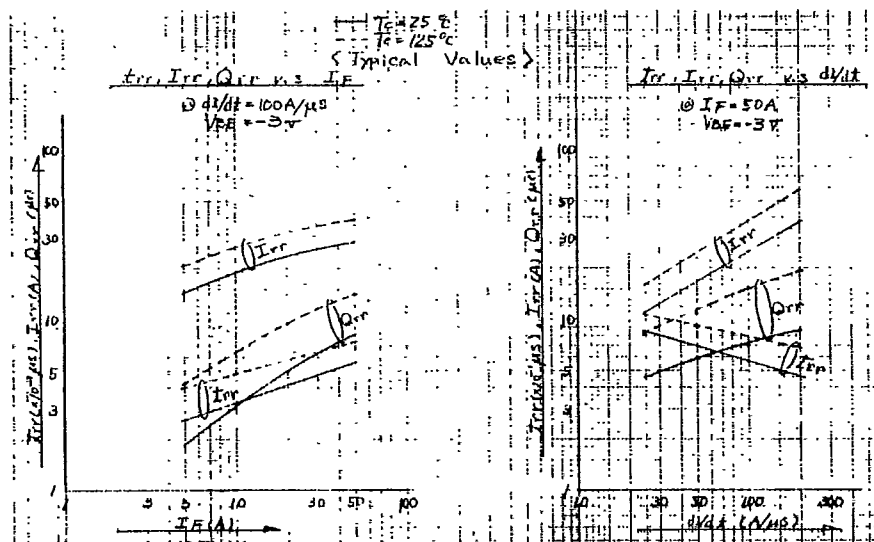
90D 16236 DT-33-35



SEMICONDUCTOR

TECHNICAL DATA

MG50G1BL3
MG50G1JL1
MG50G2CL3
MG50G2DL1
MG50G6EL1



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GT1A2A