



OTHER SYMBOLS:

RGB ELEKTRONIKA AGACIAK CIACIEK SPÓŁKA JAWNA

Jana Dlugosza 2-6 Street 51-162 Wrocław Poland

■ biuro@rgbelektronika.pl

L +48 71 325 15 05



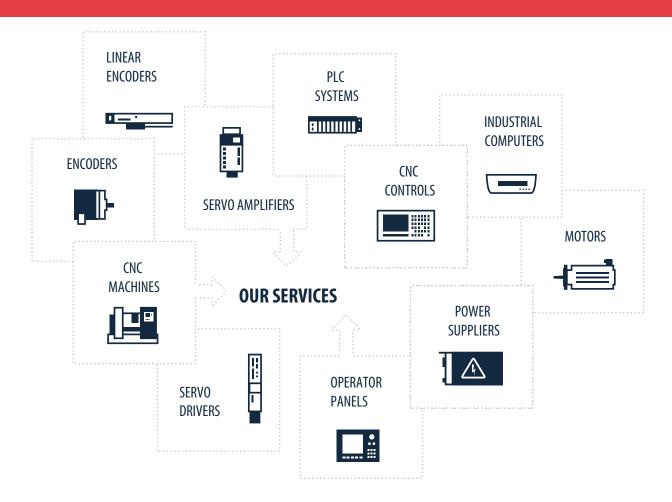


www.rgbautomatyka.pl

YOUR PARTNER IN MAINTENANCE

Repair this product with RGB ELEKTRONIKA

ORDER A DIAGNOSIS »



At our premises in Wrocław, we have a fully equipped servicing facility. Here we perform all the repair works and test each later sold unit. Our trained employees, equipped with a wide variety of tools and having several testing stands at their disposal, are a guarantee of the highest quality service.



SEMICONDUCTOR

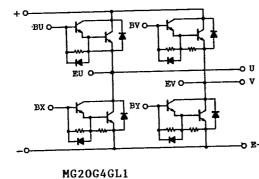
TECHNICAL DATA

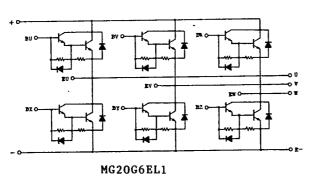
HIGH POWER SWITCHING APPLICATIONS. MOTOR CONTROL APPLICATIONS.

FEATURES:

- . The Collector is Isolated from Case
- 4 or 6 Darlington Transistors including Free Wheeling Diodes are Built-in to 1 package
- . High DC Current Gain
 - : $h_{FE} = 100(Min.) (I_{C} = 20A)$
- . Low Satulation Voltage
 - : V_{CE(sat)}=2V(Max.) (I_C=20A)

EQUIVALENT CIRCUIT





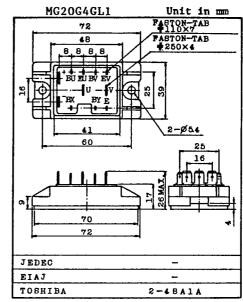
90D 16213

DT-33-35

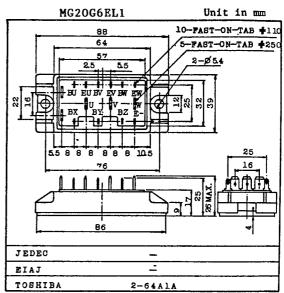
TOSHIBA GTR MODULE

MG20G4GL1 MG20G6EL1

SILICON NPN TRIPLE DIFFUSED TYPE



Weight: 140g



Weight: 180g

TOSHIBA CORPORATION

90D 16214 DT-33-35



SEMICONDUCTOR

9097250 TOSHIBA (DISCRETE/OPTO)

TECHNICAL DATA

M G 2 O G 4 G L 1 M G 2 O G 6 E L 1

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V _{СВО}	600	V
Collector-Emitter Sustaining Voltage		V _{CEX} (SUS)	600	v
Collector-Emitter Sustaining Voltage		VCEO(SUS)	450	v
Emitter-Base Voltage	VEBO	6	v	
Collector Current	DC	IC	20 .	A
Collector Carrent	lms	I _{CP}	40	A
Forward Current	DC	IF	20	A
Forward Current	lms	IFM	40	A
Base Current	IB	2	A	
Collector Power Dissipation (Tc=25°C)		PC	125	W
Junction Temperature	Tj	150	°C	
Storage Temperature Range		Tstg	-40 ~ 125	°c
Isolation Voltage	VIsol	2500 (AC 1 Minute)	v	
Screw Torque	-	30	kg · cm	

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		ICBO	VCB=600V, IE=0	-	-	1.0	mA
Emitter Cut-off Current		IEBO	VEB=6V, IC=0	1	ı	100	mA
Collector-Emitter Sustaining Voltage		VCEO(SUS)	I _C =0.5A, L=40mH	450	1	1	v
DC Current Gain		hFE	V _{CE} =5V, I _C =20A	100	1	1	
Collector-Emitter Saturation Voltage		VCE(sat)	Ic=20A, IB=0.5A	-	ı	2.0	٧
Base-Emitter Saturation Voltage		VBE(sat)		-	1	2,5	v
Switching Time	Turn-on Time	ton	DUTA CASPE 77% 187-185-C2 Y 185-185-C2 Y 185-185-C2 Y 185-C2 Y 185-C2 Y 185-C2 Y 185-C2 Y 185-C2 Y	1	•	1.0	
	Storage Time	tstg		•	1	12	. ^{µs}
	Fall Time	tf		•	•	2.0	
Forward Voltage		٧F	I _F =20A, I _B =0	-	-	1.6	V
Reverse Recovery Time		trr	IF=20A, V _{BE} =-2V di/dt=60A/us	-	-	0.7	μS
Thermal Resistance		Rth(j~c)		-	_	1.0	°C/W

TOCHIOA	CODDODATION
TOSHIBA	CORPORATION



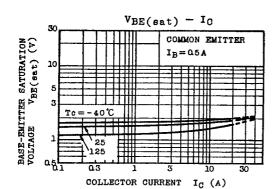
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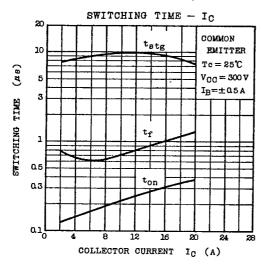
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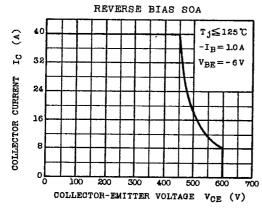
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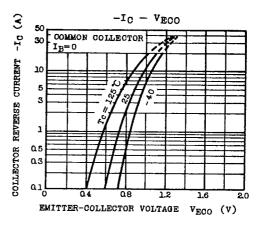
M G 2 O G 4 G L 1 M G 2 O G 6 E L 1

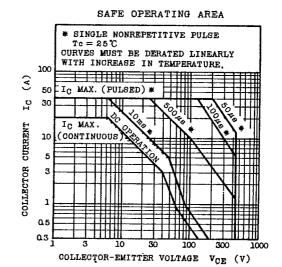
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TOSHIBA CORPORATION

GT1A2A

-221 -

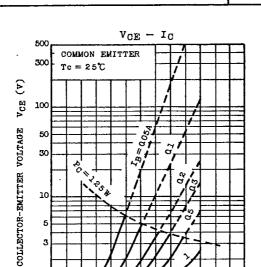
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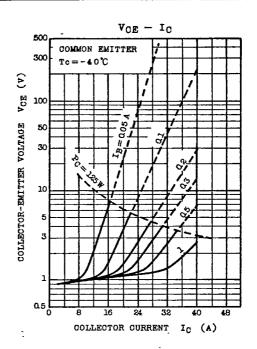
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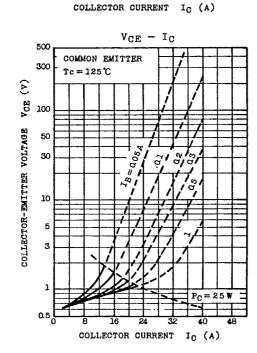


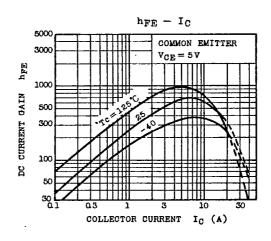
SEMICONDUCTOR

TECHNICAL DATA









TOSHIBA CORPORATION

GT1A2A

90D 16217

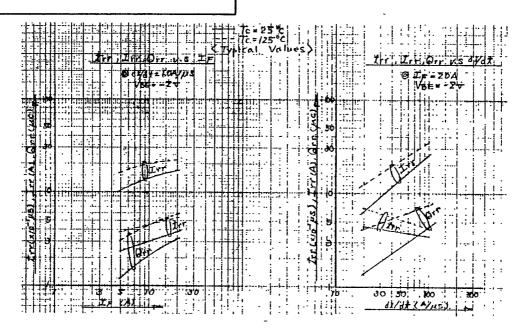
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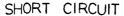


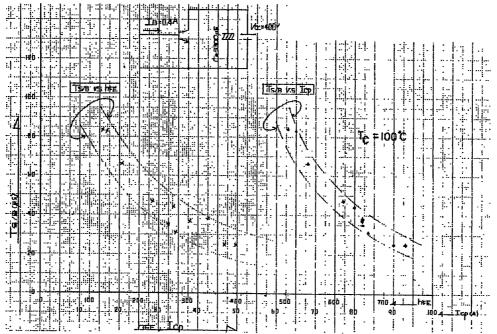
SEMICONDUCTOR

TECHNICAL DATA

MG20G4GLI MG20G6ELI







TOSHIBA CORPORATION

GT I A 2 A

DE 9097250 0016218 5

90D 16218

DT-33-35

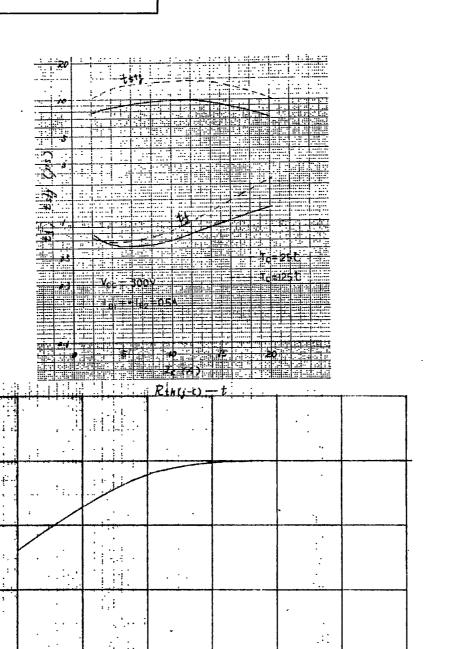
Toshiba

SEMICONDUCTOR

TECHNICAL DATA

MG20G4GLI MG20G6ELI

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