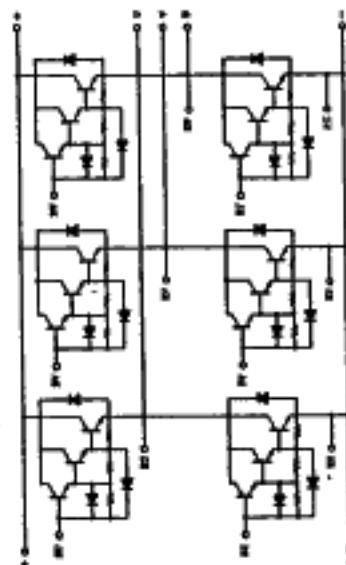
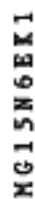
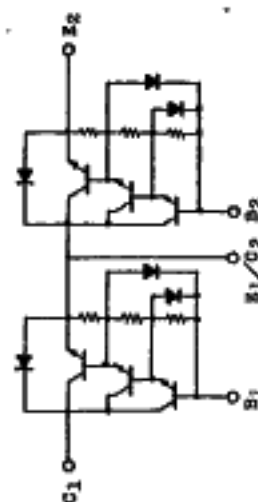
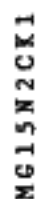




MG15N6EK1



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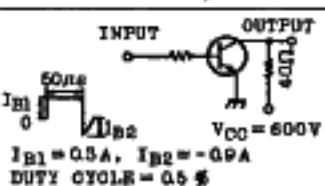
SEMICONDUCTOR TECHNICAL DATA

MG15N2CK1
MG15N6EK1

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V _{CB0}	1100	V
Collector-Emitter Sustaining Voltage		V _{CEX(SUS)}	1100	V
Collector-Emitter Sustaining Voltage		V _{CEO(SUS)}	900	V
Emitter-Base Voltage		V _{EB0}	7	V
Collector Current	DC	I _C	15	A
	1ms	I _{CP}	30	A
Forward Current	DC	I _F	15	A
	1ms	I _{FM}	30	A
Base Current		I _B	1.5	A
Collector Power Dissipation (Tc=25°C)		P _C	150	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} =1100V, I _E =0	-	-	1.0	mA
Emitter Cut-off Current		I _{EB0}	V _{EB} =7V, I _C =0	-	-	200	mA
Collector-Emitter Sustaining Voltage		V _{CEO(SUS)}	I _C =1A, L=40mH	900	-	-	V
DC Current Gain		h _{FE}	V _{CE} =5V, I _C =15A	100	-	-	
Collector-Emitter Saturation Voltage		V _{CE(sat)}	I _C =15A, I _B =0.3A	-	1.8	2.5	V
Base-Emitter Saturation Voltage		V _{BE(sat)}		-	2.6	3.5	
Switching Time	Turn-on Time	t _{on}		-	0.5	2.0	μs
	Storage Time	t _{stg}		-	8	11	
	Fall Time	t _f		-	4	6	
Forward Voltage		V _F	I _F =15A, I _B =0	-	1.0	1.5	V
Reverse Recovery Time		t _{rr}	I _F =15A, V _{BE} =-3V di/dt=60A/μs	-	0.5	1.0	μs
Thermal Resistance		R _{th(j-c)}	Transistor	-	-	0.83	°C/W
			Diode	-	-	1.3	

TOSHIBA CORPORATION

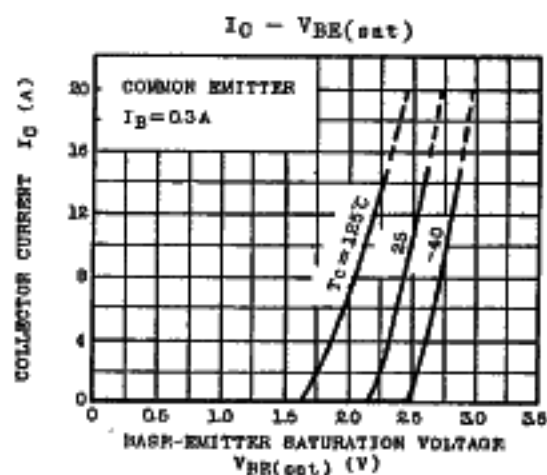
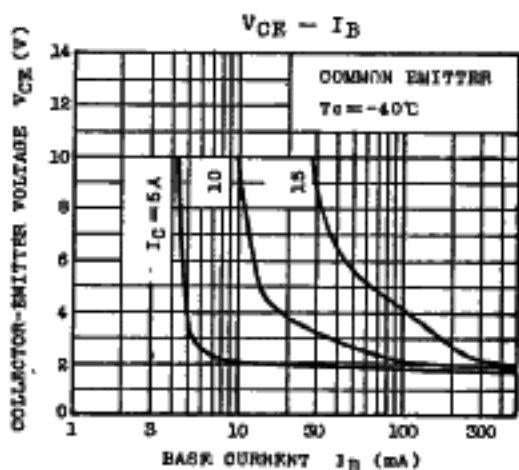
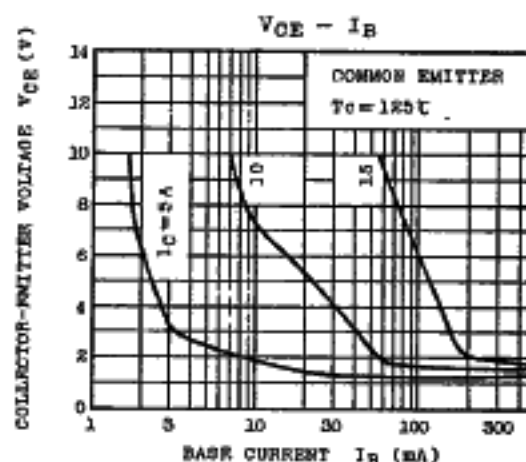
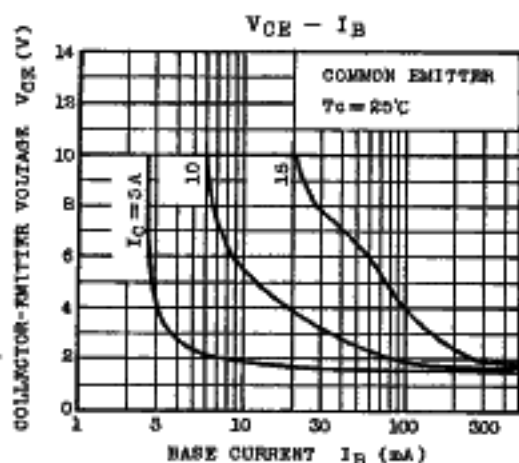
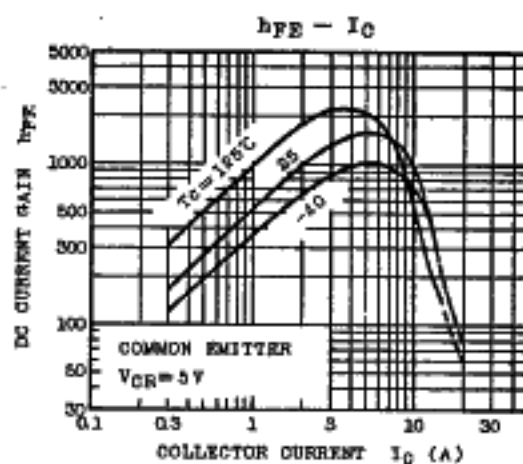
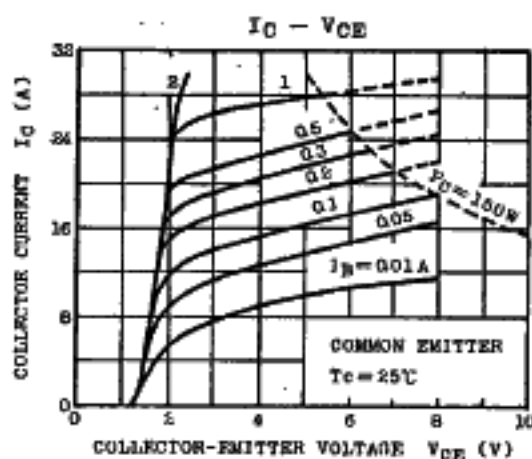
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SEMICONDUCTOR TECHNICAL DATA

MG15N2CK1

MG15N6EK1



TOSHIBA CORPORATION

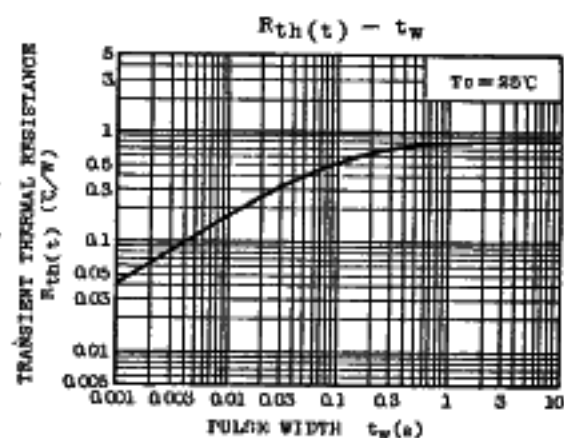
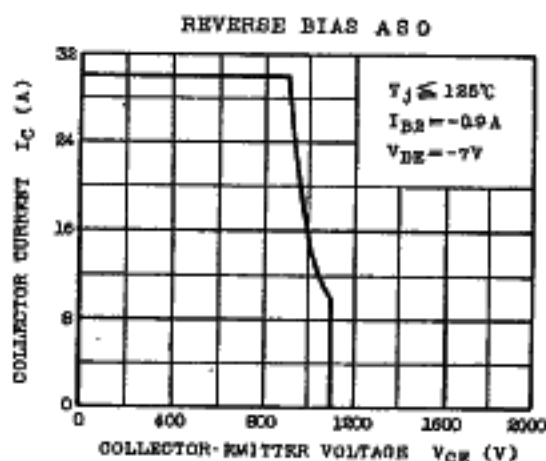
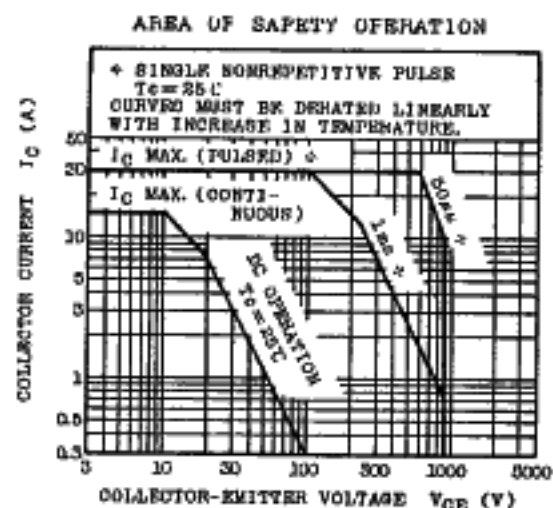
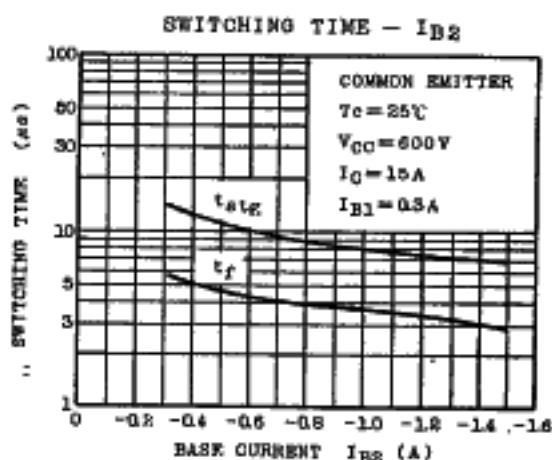
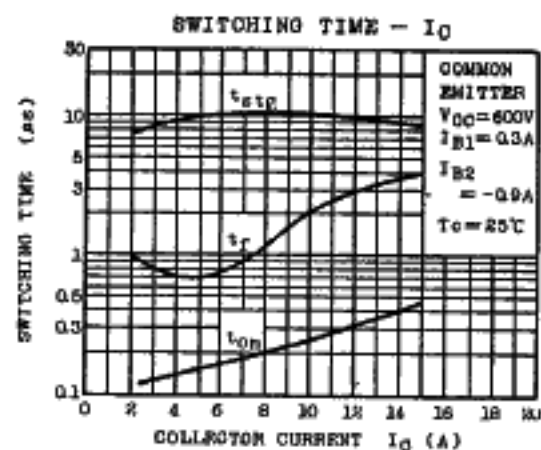
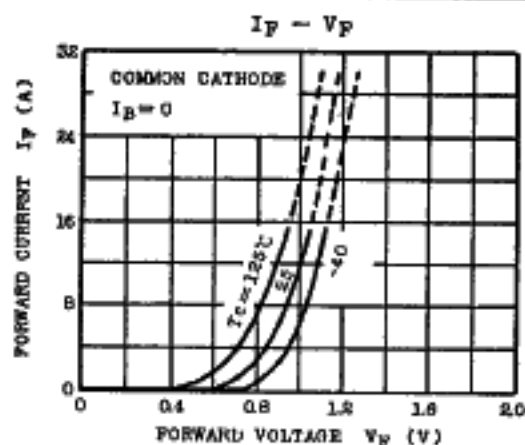
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SEMICONDUCTOR TECHNICAL DATA

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MG15N6EK1



TOSHIBA CORPORATION

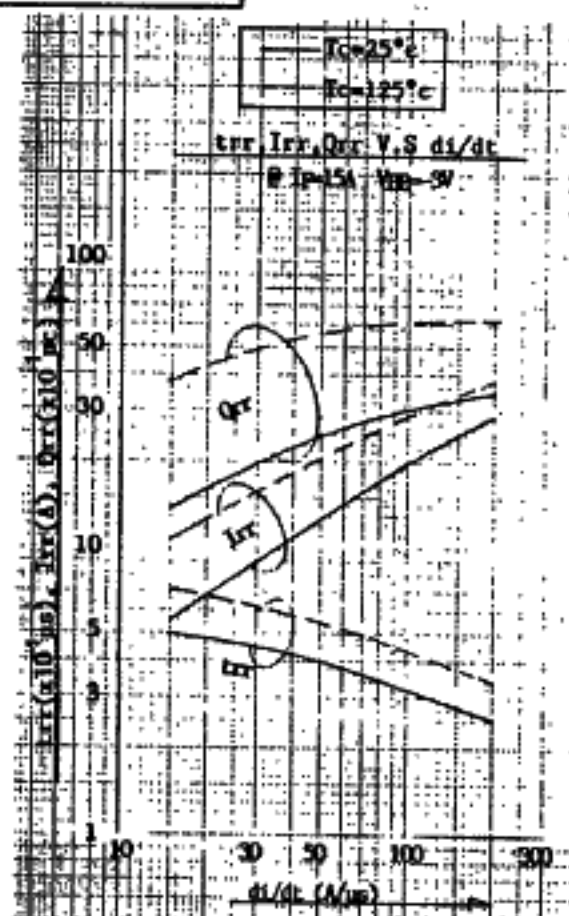
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SEMICONDUCTOR

TECHNICAL DATA

MG15N2CK1
MG15N6EK1



TOSHIBA CORPORATION

GT1A2A