

MG25M1BK1

GTR MODULE
SILICON NPN TRIPLE DIFFUSED TYPE

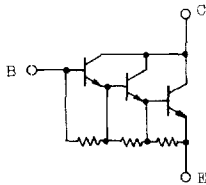
HIGH POWER SWITCHING APPLICATIONS.
MOTOR CONTROL APPLICATIONS.

FEATURES:

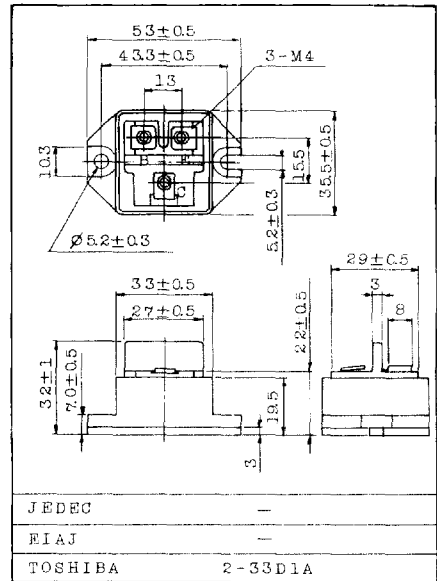
- The Collector is Isolation from Case.
- High DC Current Gain : $h_{FE}=100(\text{Min.})$ ($I_C=25\text{A}$)
- Low Saturation Voltage
: $V_{CE(\text{sat})}=2.5\text{V}(\text{Max.})$ ($I_C=25\text{A}$)

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EQUIVALENT CIRCUIT



Unit in mm



Weight : 90g

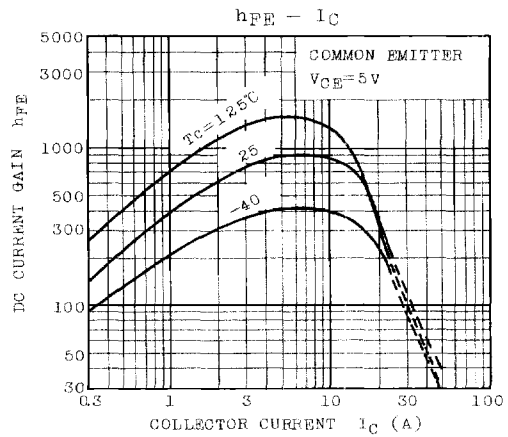
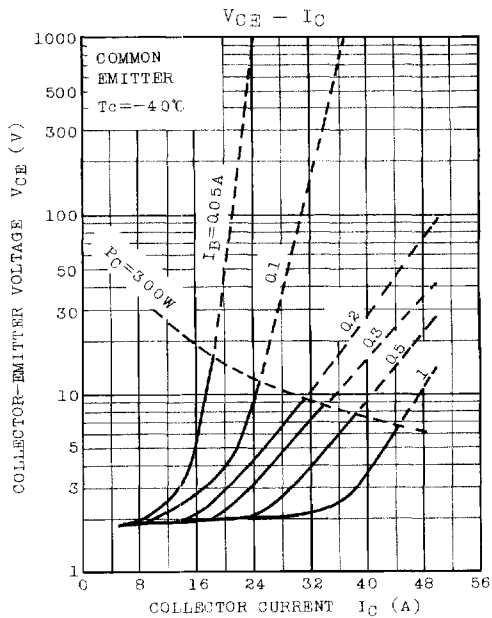
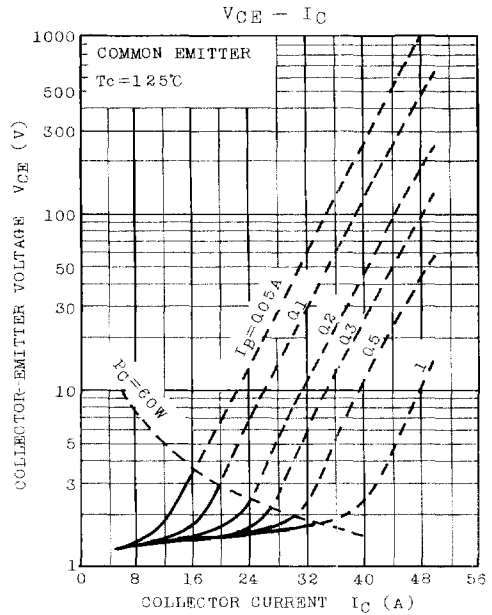
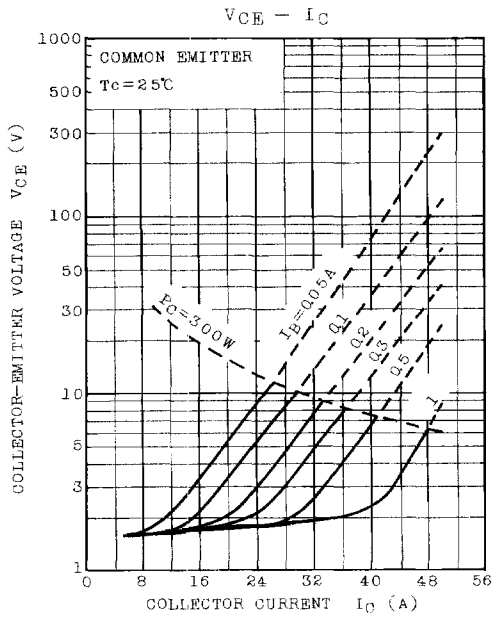
MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

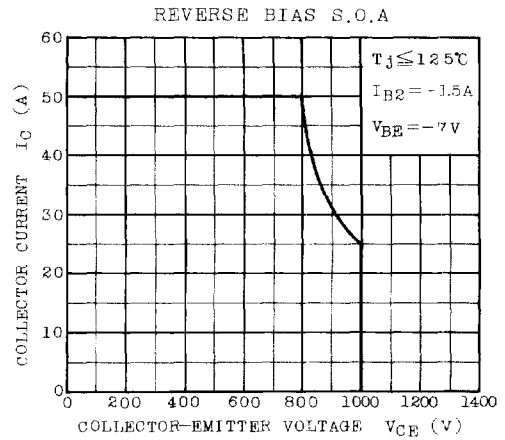
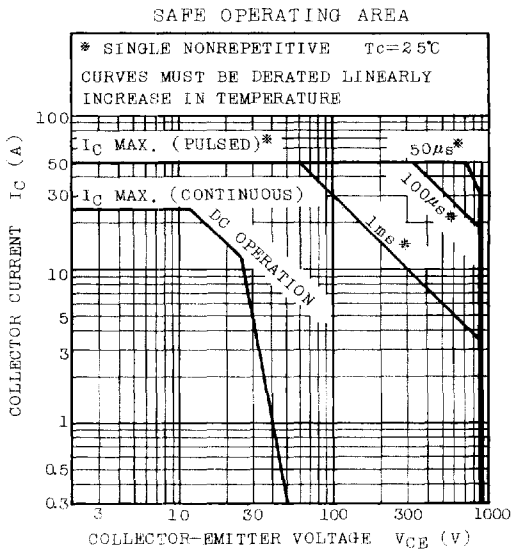
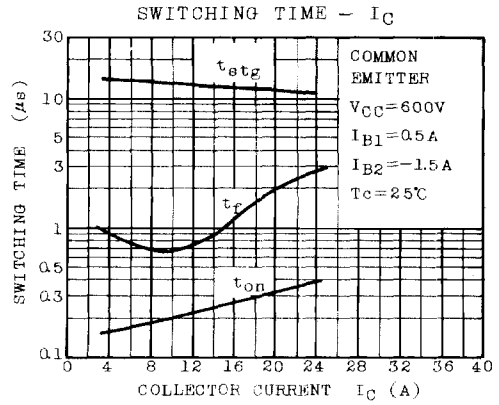
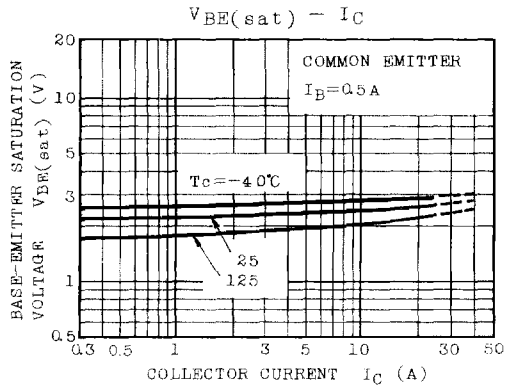
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	1000	V
Collector-Emitter Sustaining Voltage	$V_{CEX(\text{SUS})}$	1000	V
Collector-Emitter Sustaining Voltage	$V_{CEO(\text{SUS})}$	880	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	DC	I_C	25
	1ms	I_{CP}	50
Base Current	I_B	1.5	A
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	300	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 ~ 125	$^\circ\text{C}$
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_{CBO}	$V_{CB}=1000V, I_E=0$	-	-	1.0	mA
Emitter Cut-off Current		I_{EBO}	$V_{EB}=7V, I_C=0$	-	-	200	mA
Collector-Emitter Sustaining Voltage		$V_{CEX(SUS)}$	$I_C=1A, V_{BE}=-2V$	1000	-	-	V
		$V_{CEO(SUS)}$	$I_C=1A, L=40mH$	880	-	-	
DC Current Gain		h_{FE}	$V_{CE}=5V, I_C=25A$	100	-	-	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=25A, I_B=0.5A$	-	-	2.5	V
Base-Emitter Saturation Voltage		$V_{BE(sat)}$		-	-	3.5	V
Switching Time	Turn-on Time	t_{on}	<p>INPUT</p> <p>OUTPUT</p> <p>50µs</p> <p>I_{B1} I_{B2}</p> <p>24Ω</p> <p>$V_{CC}=600V$</p> <p>$I_{B1}=0.5A, I_{B2}=-1.5A$ DUTY CYCLE=0.5%</p>	-	-	2.0	µs
	Storage Time	t_{stg}		-	-	20	
	Fall Time	t_f		-	-	5.0	
Thermal Resistance		$R_{th(j-c)}$	-	-	-	0.41	°C/W

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