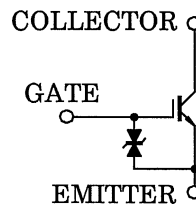


GT5G103

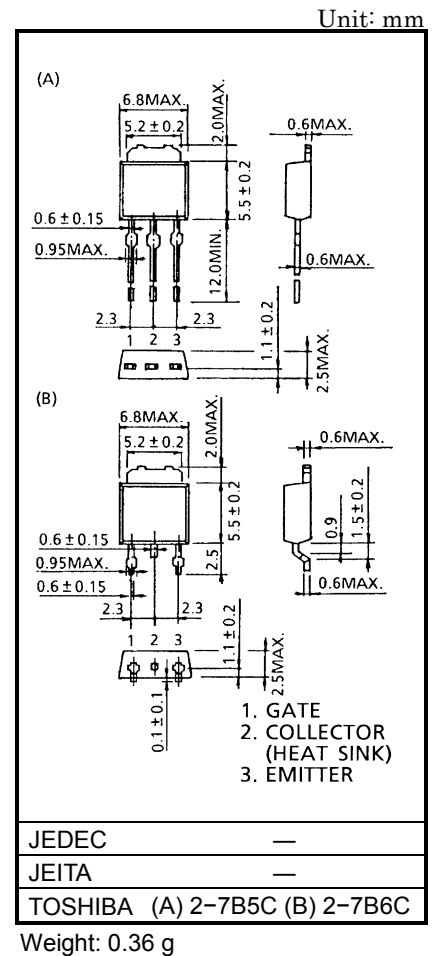
STROBE FLASH APPLICATIONS

- 3rd Generation
- High Input Impedance
- Low Saturation Voltage : $V_{CE(sat)} = 8\text{ V (Max.)}$ ($I_C = 130\text{ A}$)
- Enhancement-Mode
- 4.5 V Gate Drive



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

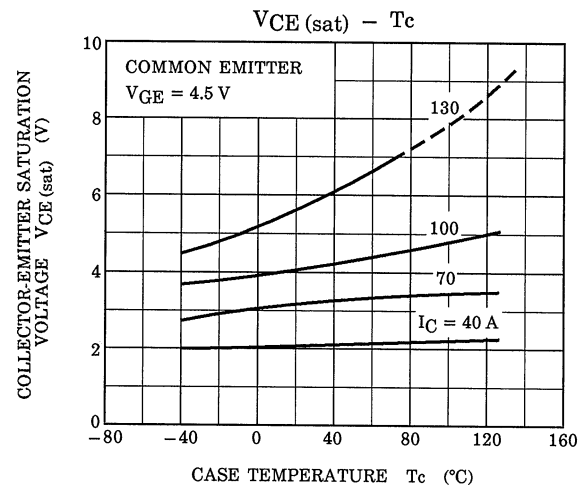
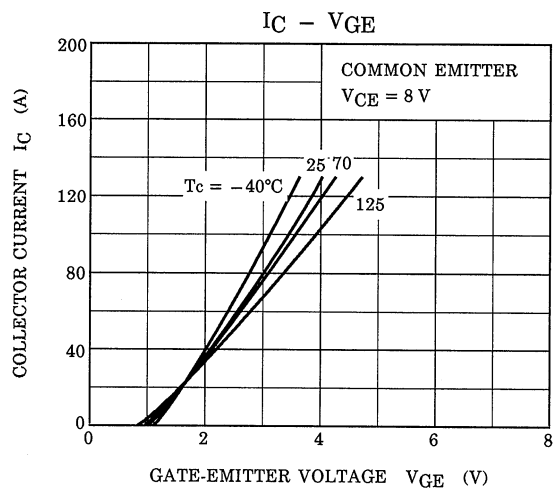
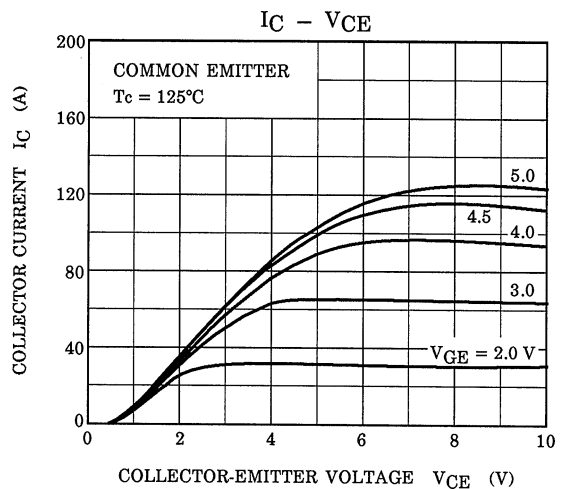
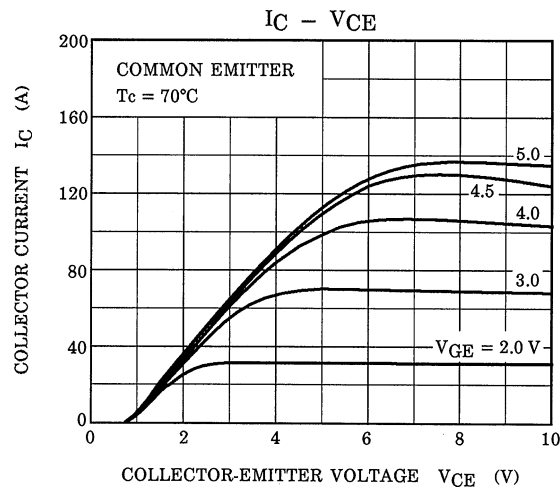
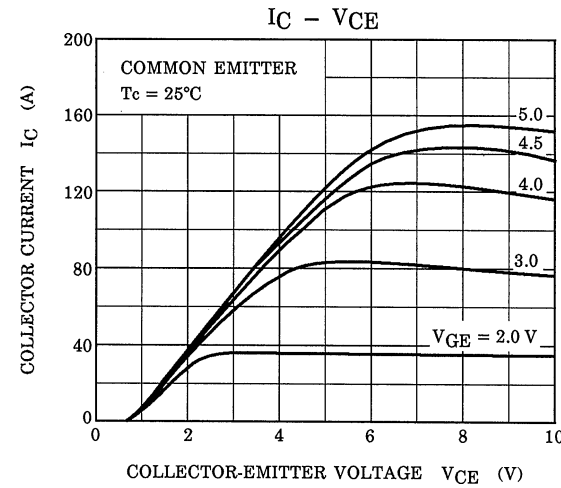
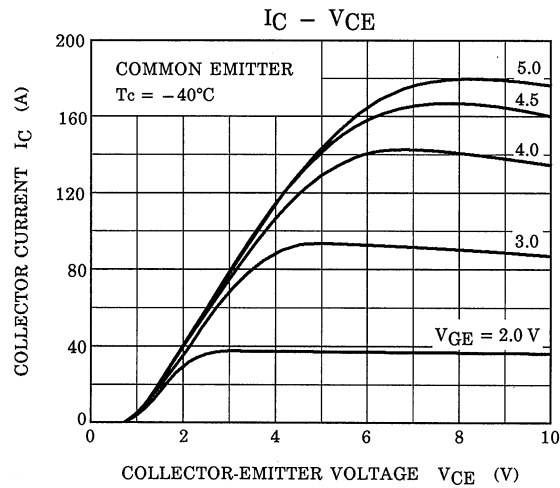
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Emitter Voltage		V_{CES}	400	V
Gate-Emitter Voltage	DC	V_{GES}	± 6	V
	Pulse	V_{GES}	± 8	V
Collector Current	DC	I_C	5	A
	1 ms	I_{CP}	130	A
Collector Power Dissipation	$T_a = 25^\circ\text{C}$	P_C	1.3	W
	$T_c = 25^\circ\text{C}$	P_C	20	W
Junction Temperature		T_j	150	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	-55~150	$^\circ\text{C}$

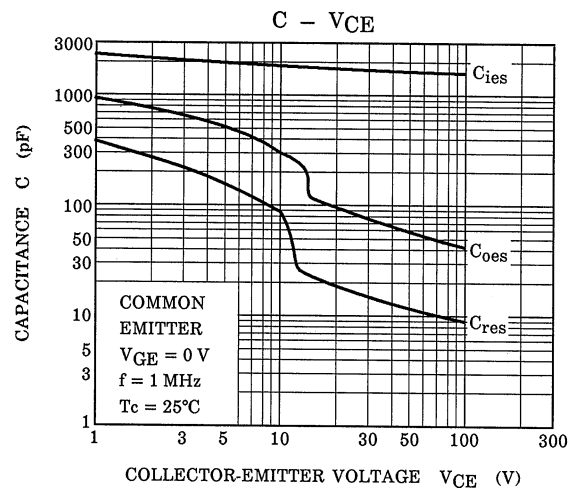
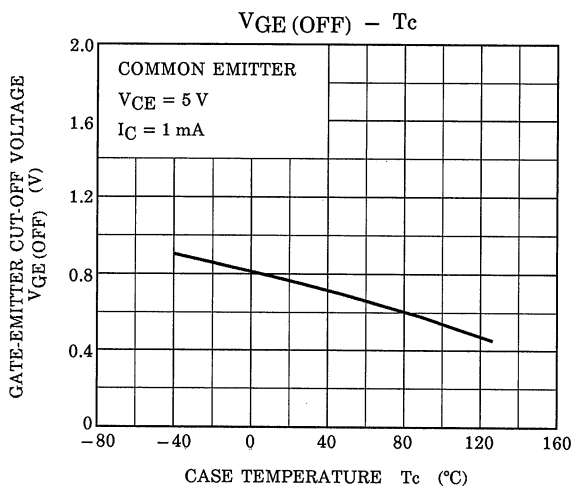
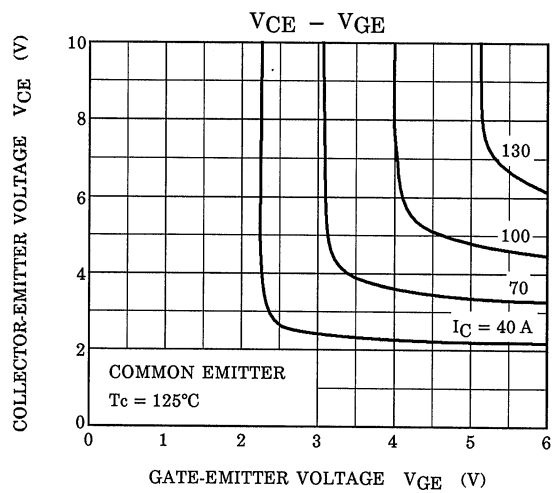
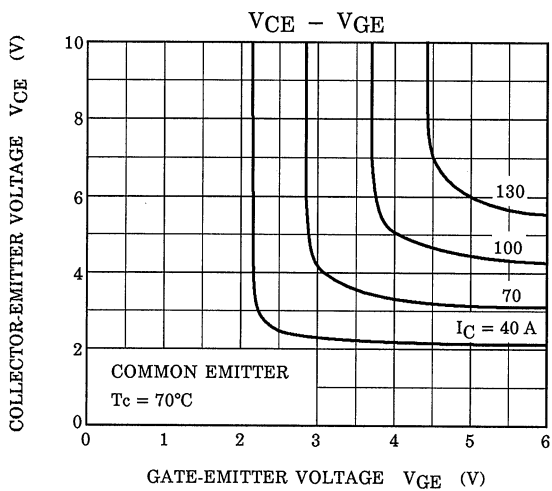
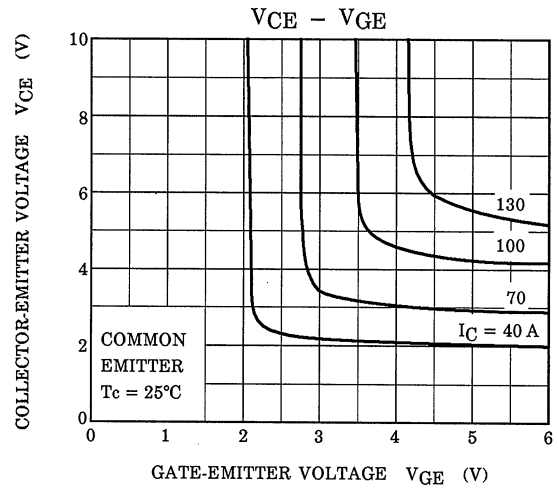
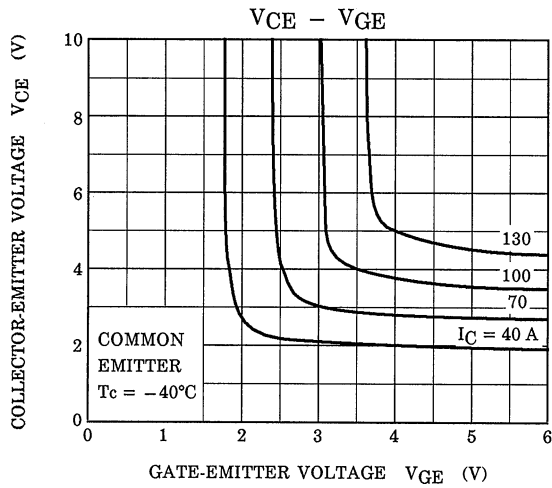


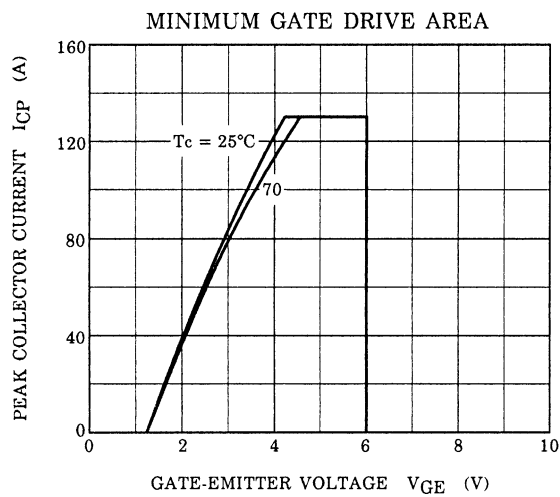
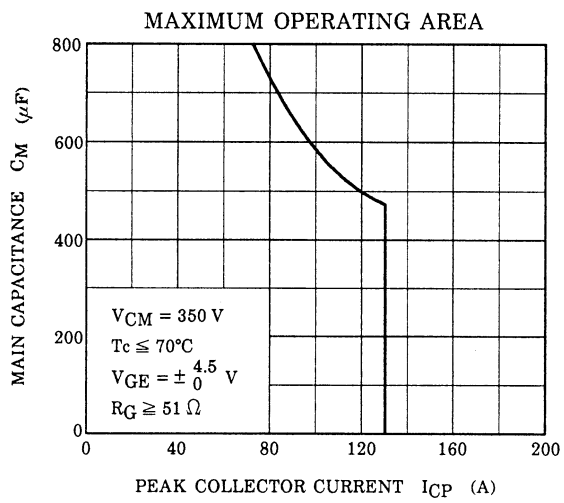
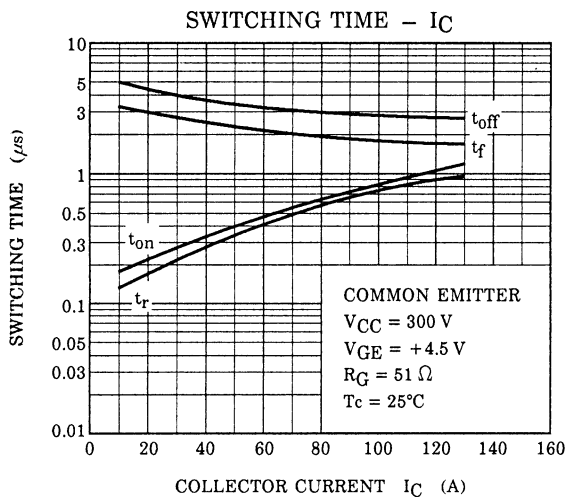
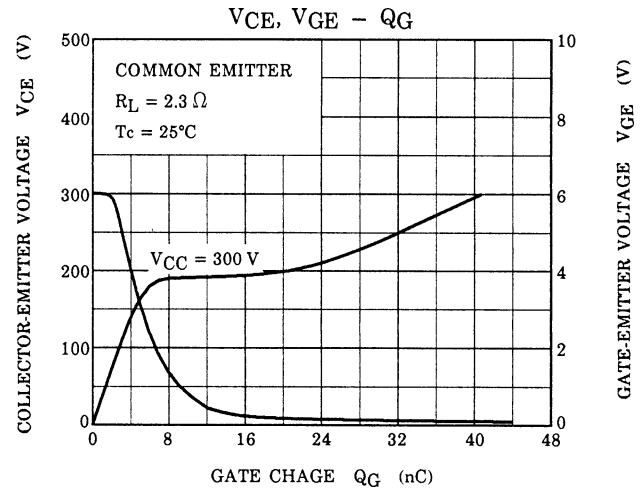
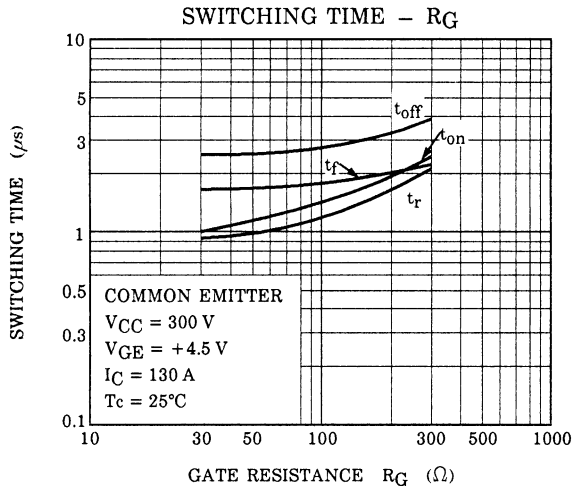
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Gate Leakage Current		I_{GES}	$V_{GE} = 6\text{ V}, V_{CE} = 0$	—	—	10	μA
Collector Cut-off Current		I_{CES}	$V_{CE} = 400\text{ V}, V_{GE} = 0$	—	—	10	μA
Gate-Emitter Cut-off Voltage		$V_{GE(OFF)}$	$I_C = 1\text{ mA}, V_{CE} = 5\text{ V}$	0.5	—	1.2	V
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C = 130\text{ A}, V_{GE} = 4.5\text{ V (Pulsed)}$	—	5	8	V
Input Capacitance		C_{ies}	$V_{CE} = 10\text{ V}, V_{GE} = 0, f = 1\text{ MHz}$	—	1900	—	pF
Switching Time	Rise Time	t_r	$V_{IN} : t_r \leq 100\text{ ns}$ $t_f \leq 100\text{ ns}$ Duty cycle $\leq 1\%$	—	0.9	—	μs
	Turn-on Time	t_{on}		—	1.1	—	
	Fall Time	t_f		—	2.0	—	
	Turn-off Time	t_{off}		—	2.4	—	
Thermal Resistance		$R_{th(j-c)}$	—	—	—	6.25	$^\circ\text{C/W}$

This transistor is an electrostatic sensitive device. Please handle with caution.







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000707EAA

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