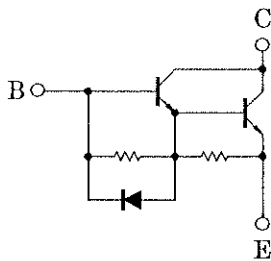


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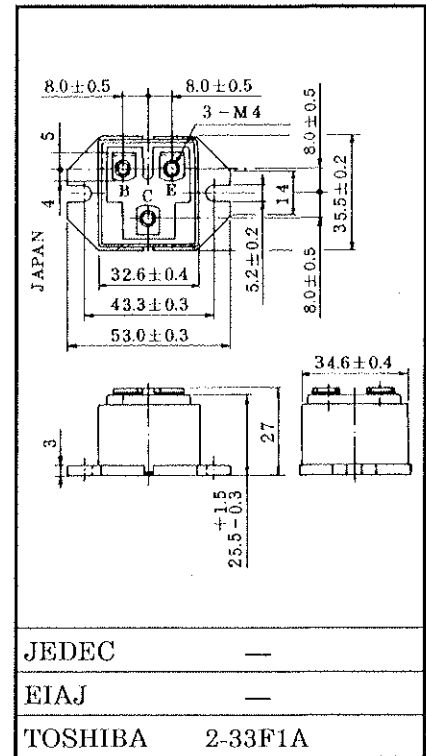
HIGH POWER SWITCHING APPLICATIONS.

- The Collector is Isolated from Case.
- High DC Current Gain : $h_{FE} = 100$ (Min.) ($I_C = 30A$)
- Low Saturation Voltage : $V_{CE(sat)} = 2V$ (Max.) ($I_C = 30A$)
- High Speed : $t_f = 2\mu s$ (Max.) ($I_C = 30A$)

EQUIVALENT CIRCUIT



Unit in mm



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

Weight : 86g

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	600	V
Collector-Emitter Sustaining Voltage	$V_{CEX(SUS)}$	600	V
Collector-Emitter Sustaining Voltage	$V_{CEO(SUS)}$	450	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	DC	I_C	30
	1ms	I_C	60
Base Current	I_B	3	A
Collector Power Dissipation ($T_c = 25^\circ C$)	P_C	250	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-40~125	$^\circ C$
Isolation Voltage	V_{Isol}	2500 (AC 1 Minute)	V
Screw Torque (Terminal / Mounting)	—	2 / 3	N·m

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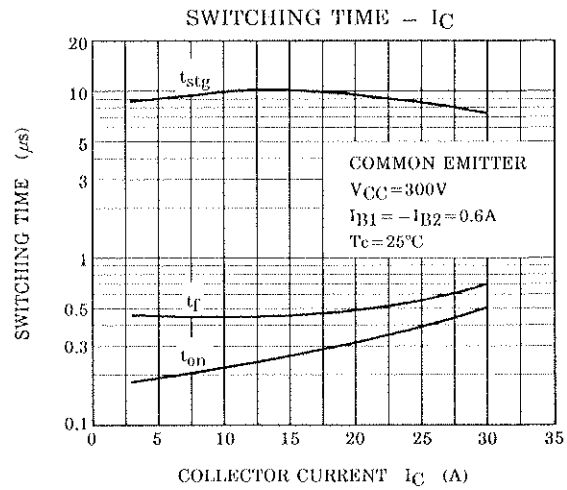
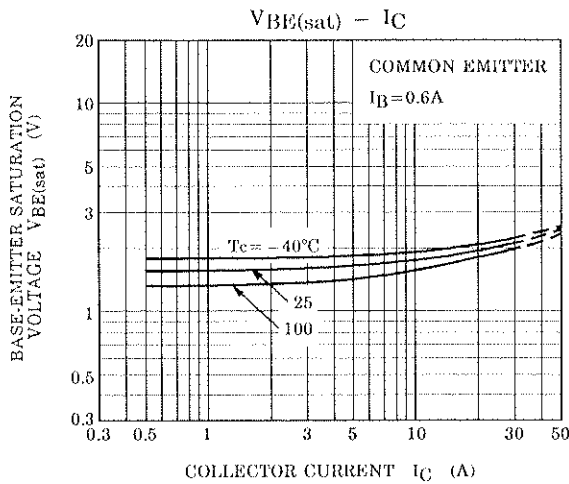
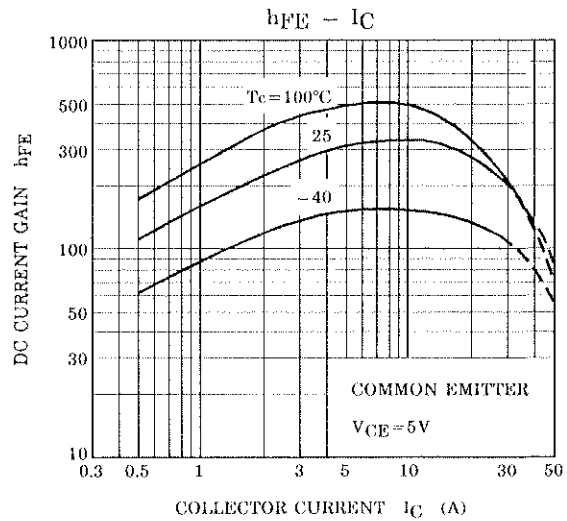
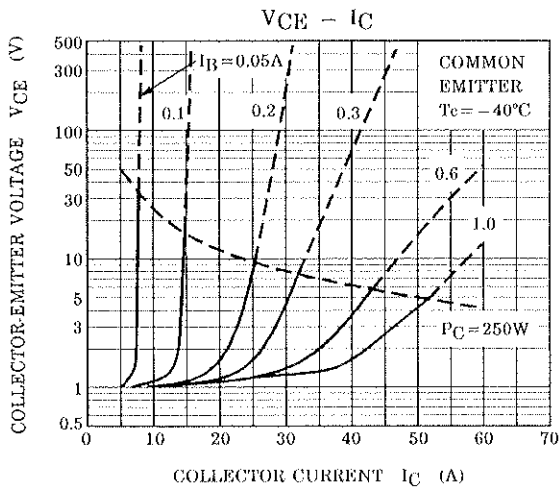
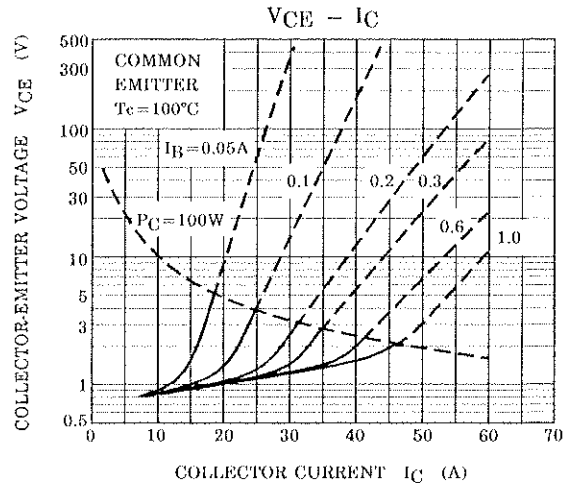
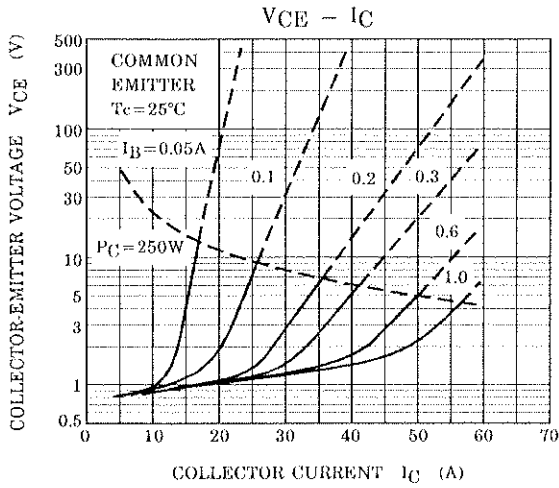
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ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB} = 600V, I_E = 0$	—	—	1.0	mA
Emitter Cut-off Current		I_{EBO}	$V_{EB} = 6V, I_C = 0$	—	—	200	mA
Collector-Emitter Sustaining Voltage		$V_{CEO(SUS)}$	$I_C = 0.5A, L = 40mH$	450	—	—	V
DC Current Gain		h_{FE}	$V_{CE} = 5V, I_C = 30A$	100	—	—	—
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C = 30A, I_B = 0.6A$	—	—	2.0	V
Base-Emitter Saturation Voltage		$V_{BE(sat)}$		—	—	2.5	V
Switching Time	Turn-on Time	t_{on}	<p>$I_{B1} = -I_{B2} = 0.6A$ DUTY CYCLE = 0.5%</p>	—	—	1.0	μs
	Storage Time	t_{stg}		—	—	12	
	Fall Time	t_f		—	—	2.0	
Thermal Resistance		$R_{th(j-c)}$	—	—	—	0.5	°C/W

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