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PULSE MOTOR DRIVE, HAMMER DRIVE APPLICATIONS

SWITCHING APPLICATIONS

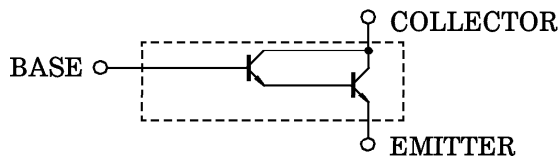
POWER AMPLIFIER APPLICATIONS

- High DC Current Gain : $h_{FE}=4000$ (Min.)
- Low Saturation Voltage : $V_{CE(sat)}=1.5V$ (Max.)

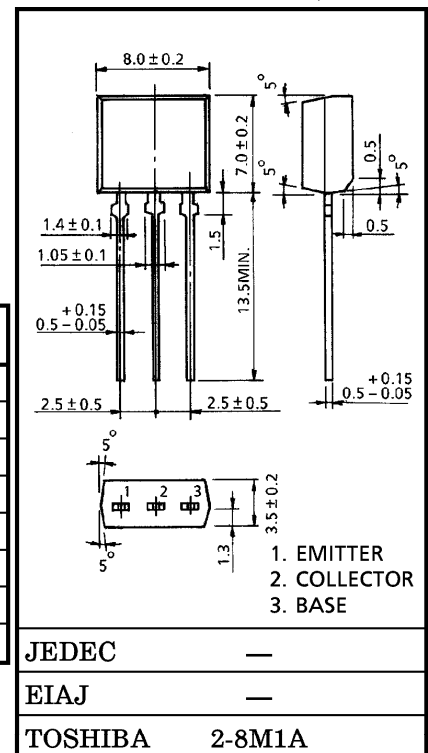
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	30	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	10	V
Collector Current	I_C	1.5	A
Base Current	I_B	0.15	A
Collector Power Dissipation	P_C	1.3	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

EQUIVALENT CIRCUIT

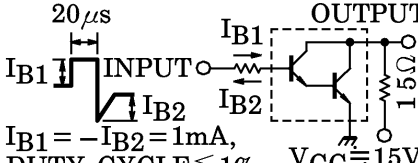


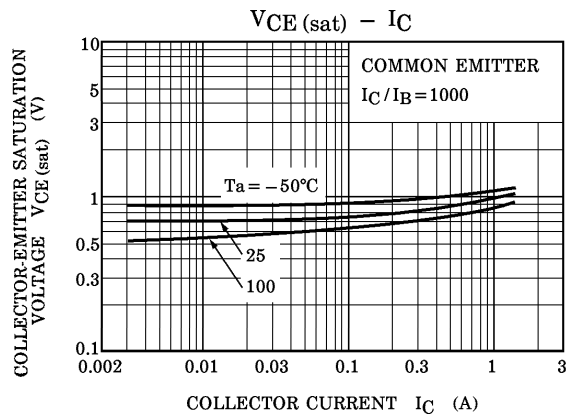
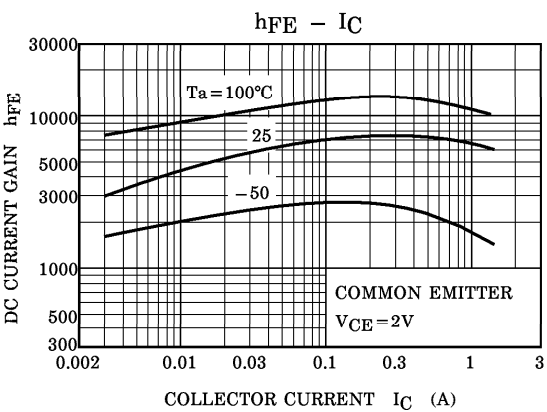
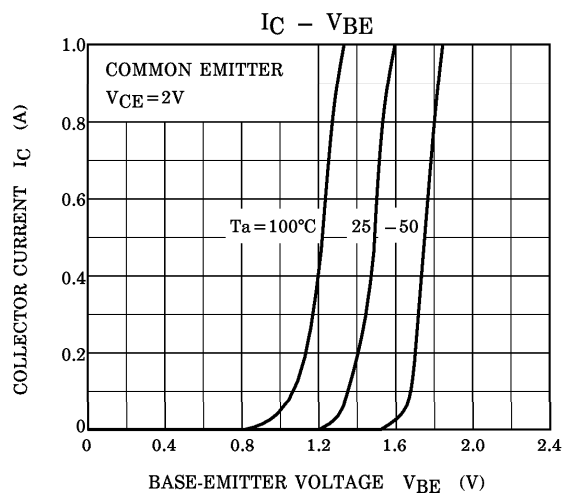
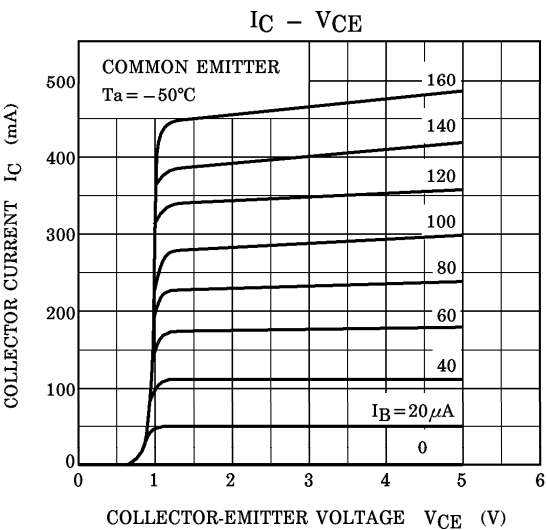
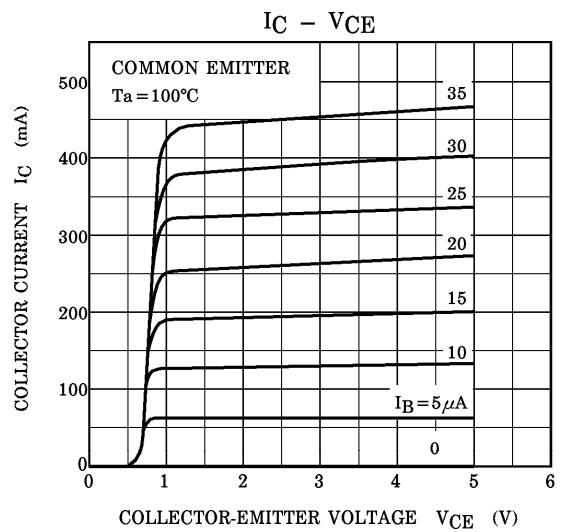
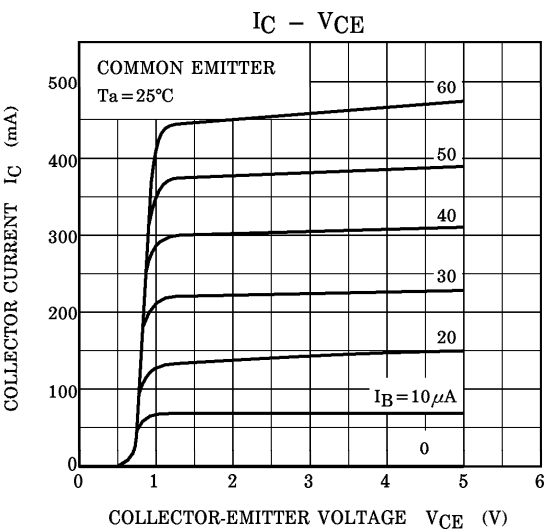
Unit in mm

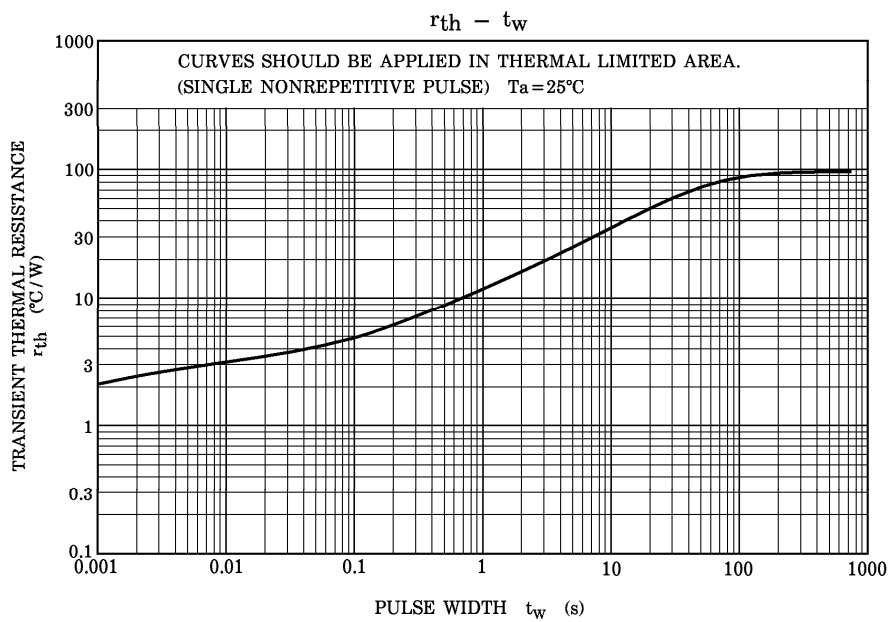
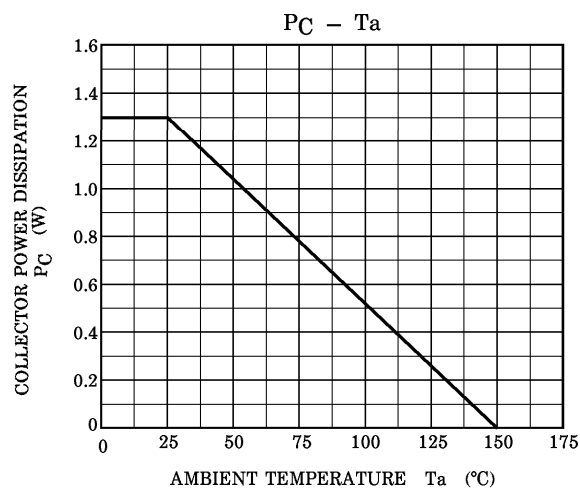
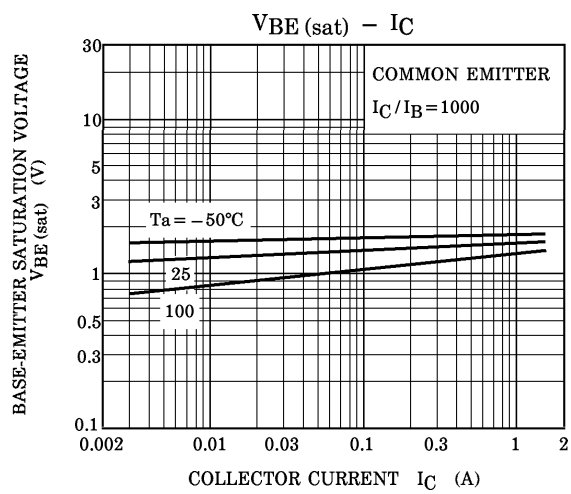


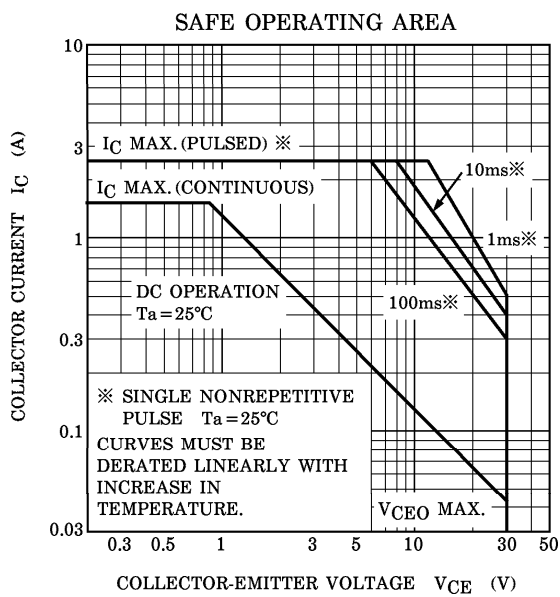
Weight : 0.55g (Typ.)

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB}=30V, I_E=0$	—	—	10	μA
Emitter Cut-off Current		I_{EBO}	$V_{EB}=10V, I_C=0$	—	—	10	μA
Collector-Emitter Breakdown Voltage		$V_{(BR) CEO}$	$I_C=10mA, I_B=0$	30	—	—	V
DC Current Gain		h_{FE}	$V_{CE}=2V, I_C=150mA$	4000	—	—	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	$I_C=1A, I_B=1mA$	—	—	1.5	V
	Base-Emitter	$V_{BE(sat)}$	$I_C=1A, I_B=1mA$	—	—	2.2	
Switching Time	Turn-On Time	t_{on}		—	0.18	—	μs
	Storage Time	t_{stg}		—	0.6	—	
	Fall Time	t_f		$I_{B1} = -I_{B2} = 1mA, DUTY\ CYCLE \leq 1\%$	—	0.3	







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