

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE (PCT PROCESS)

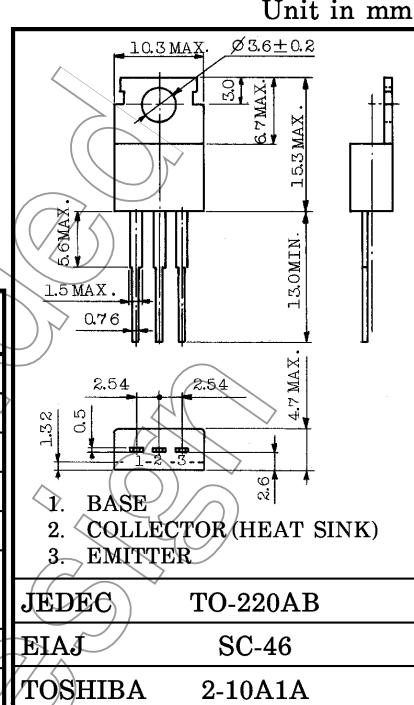
2SB834

AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

- Low Collector Saturation Voltage : $V_{CE(sat)} = -1.0V$ (Max.) at $I_C = -3A$, $I_B = -0.3A$
- Collector Power Dissipation : $P_C = 30W$ ($T_c = 25^\circ C$)
- Complementary to 2SD880.

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

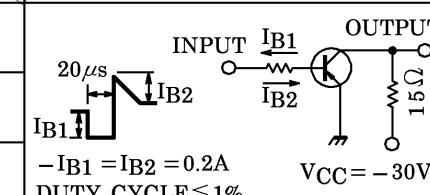
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-60	V
Emitter-Base Voltage	V_{EBO}	-7	V
Collector Current	I_C	-3	A
Base Current	I_B	-0.5	A
Collector Power Dissipation	P_C	1.5	W
		30	
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55~150	$^\circ C$

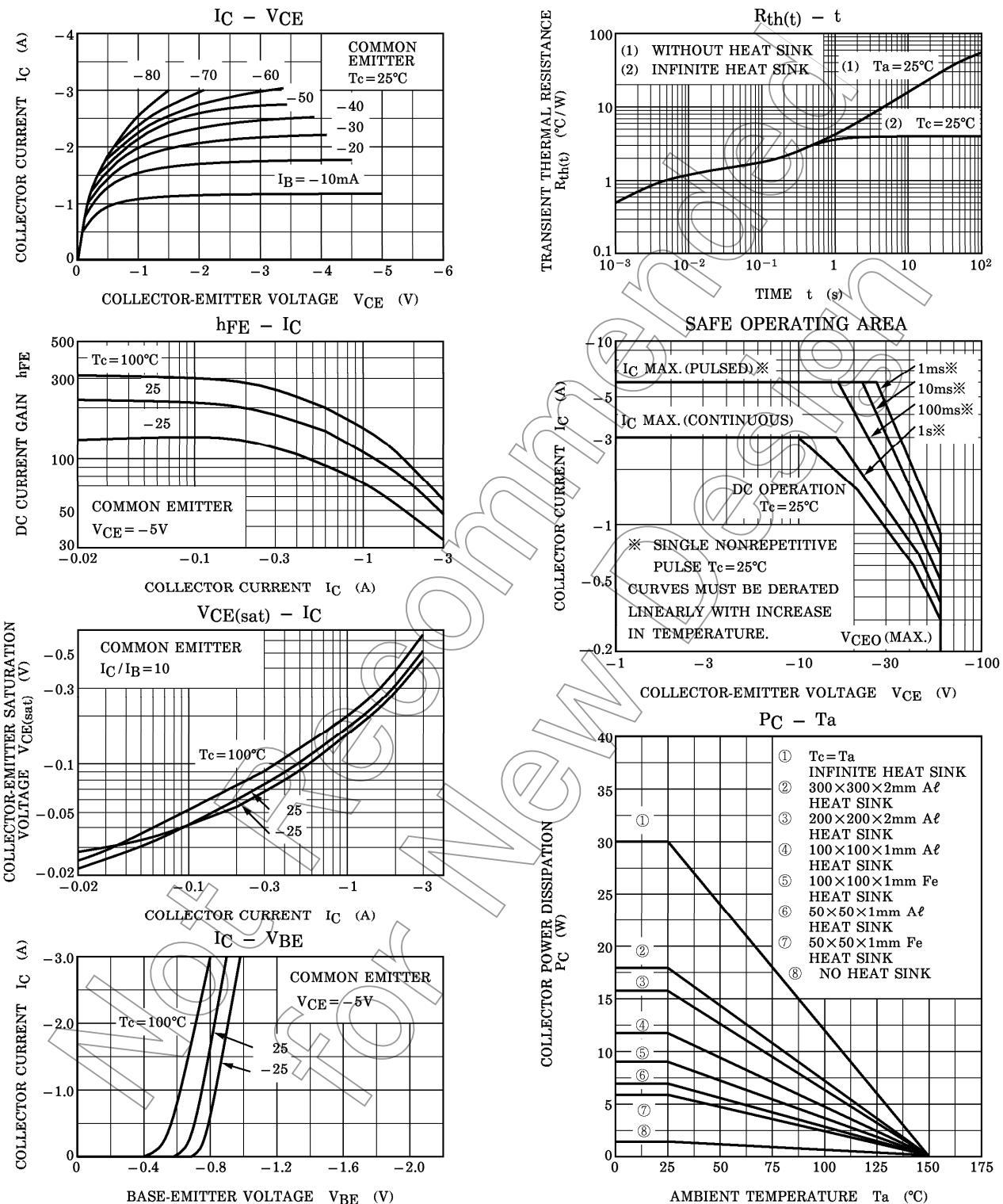


Mounting kit No.AC75
Weight : 1.9g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -60V$, $I_E = 0$	—	—	-100	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -7V$, $I_C = 0$	—	—	-100	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50mA$, $I_B = 0$	-60	—	—	V
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE} = -5V$, $I_C = -0.5A$	60	—	200	
	$h_{FE}(2)$	$V_{CE} = -5V$, $I_C = -3A$	20	—	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -3A$, $I_B = -0.3A$	—	-0.5	-1.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5V$, $I_C = -0.5A$	—	-0.7	-1.0	V
Transition Frequency	f_T	$V_{CE} = -5V$, $I_C = -0.5A$	—	9	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V$, $I_E = 0$, $f = 1MHz$	—	150	—	pF
Switching Time	Turn-on Time	t_{on}	—	0.4	—	μs
	Storage Time	t_{stg}	—	1.7	—	
	Fall Time	t_f	—	0.5	—	

Note : $h_{FE}(1)$ Classification O : 60~120, Y : 100~200



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