

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2SA1426

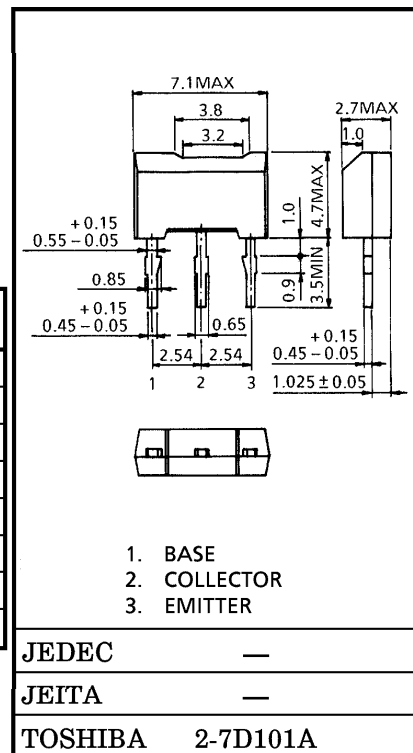
AUDIO POWER AMPLIFIER APPLICATIONS

- High h_{FE} : $h_{FE} = 100 \sim 320$
- 1 W Output Applications.
- Complementary to 2SC3666.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-35	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-800	mA
Base Current	I_B	-160	mA
Collector Power Dissipation	P_C	1000	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

Unit in mm

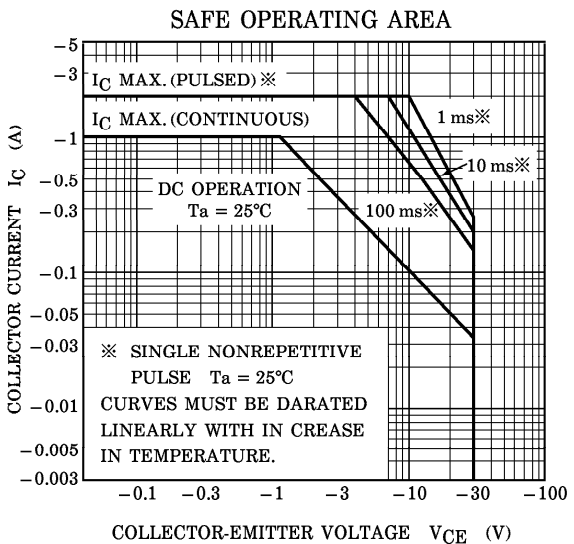
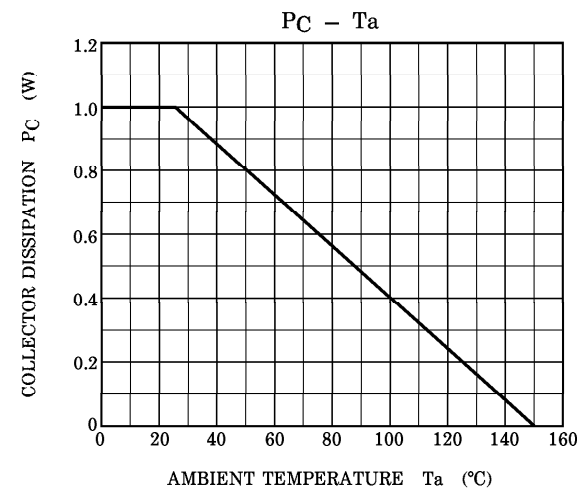
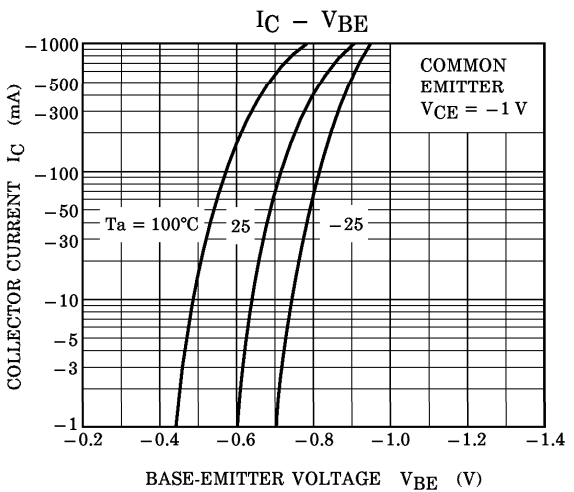
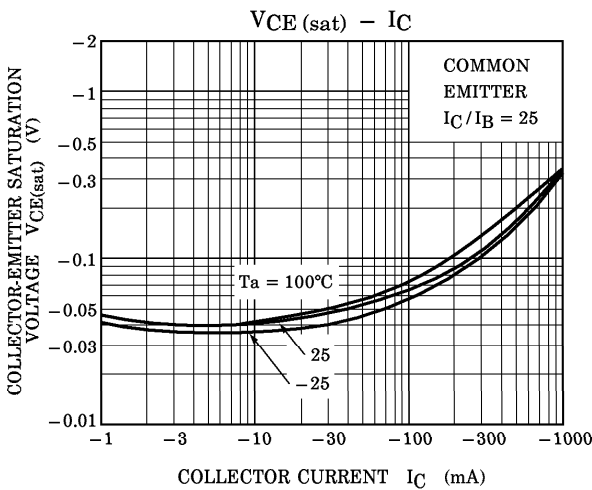
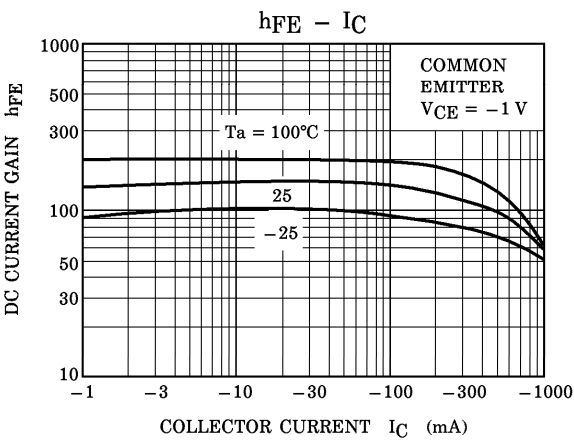
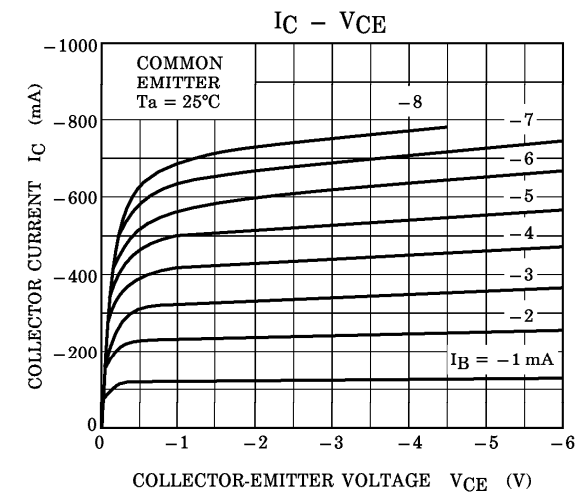


Weight : 0.2 g (Typ.)

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -35\text{ V}, I_E = 0$	—	—	-100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{ V}, I_C = 0$	—	—	-100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10\text{ mA}$	-30	—	—	V
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE} = -1\text{ V}, I_C = -100\text{ mA}$	100	—	320	
	$h_{FE}(2)$	$V_{CE} = -1\text{ V}, I_C = -700\text{ mA}$	35	—	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500\text{ mA}, I_B = 20\text{ mA}$	—	—	-0.7	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -1\text{ V}, I_C = -10\text{ mA}$	-0.5	—	-0.8	V
Transition Frequency	f_T	$V_{CE} = -5\text{ V}, I_C = -10\text{ mA}$	—	120	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{ V}, f = 1\text{ MHz}$	—	19	—	pF

(Note) : $h_{FE}(1)$ Classification O : 100~200, Y : 160~320



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