

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

# 2SA1426

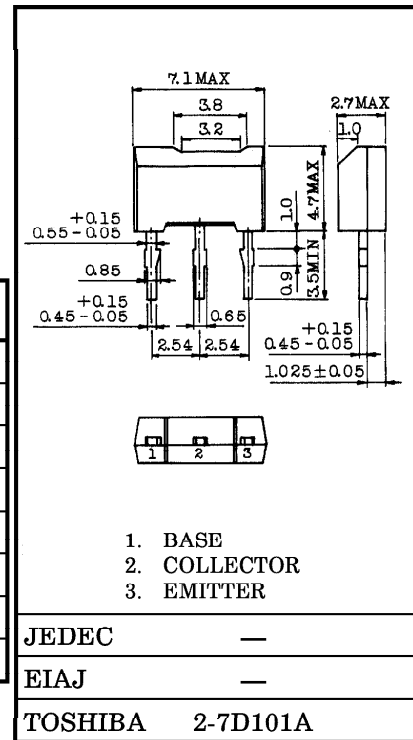
AUDIO POWER AMPLIFIER APPLICATIONS.

Unit in mm

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

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	-35	V
Collector-Emitter Voltage	$V_{CEO}$	-30	V
Emitter-Base Voltage	$V_{EB0}$	-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	$^\circ\text{C}$



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

Weight : 0.2g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CB0}$	$V_{CB} = -35\text{V}, I_E = 0$	—	—	-100	nA
Emitter Cut-off Current	$I_{EB0}$	$V_{EB} = -5\text{V}, I_C = 0$	—	—	-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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