

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

# 2SC3421

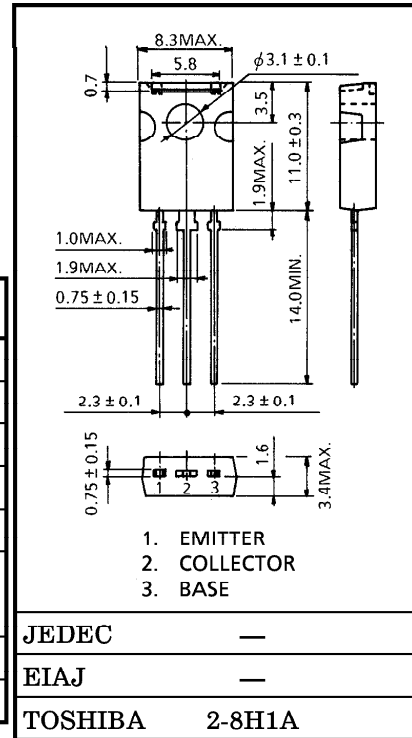
AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

Unit in mm

- Complementary to 2SA1358
- Suitable for Driver of 60 to 80 Watts Audio Amplifier
- High Breakdown Voltage

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V <sub>CB0</sub>	120	V
Collector-Emitter Voltage		V <sub>CEO</sub>	120	V
Emitter-Base Voltage		V <sub>EB0</sub>	5	V
Collector Current		I <sub>C</sub>	1	A
Base Current		I <sub>B</sub>	100	mA
Collector Power Dissipation	Ta = 25°C	P <sub>C</sub>	1.5	W
	Tc = 25°C		10	
Junction Temperature		T <sub>j</sub>	150	°C
Storage Temperature Range		T <sub>stg</sub>	-55~150	°C



Weight : 0.82g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CB0</sub>	V <sub>CB</sub> = 120V, I <sub>E</sub> = 0	—	—	100	nA
Emitter Cut-off Current	I <sub>EB0</sub>	V <sub>EB</sub> = 5V, I <sub>C</sub> = 0	—	—	100	nA
Collector-Emitter Breakdown Voltage	V <sub>(BR) CEO</sub>	I <sub>C</sub> = 10mA, I <sub>B</sub> = 0	120	—	—	V
DC Current Gain	h <sub>FE</sub> (Note)	V <sub>CE</sub> = 5V, I <sub>C</sub> = 100mA	80	—	240	
Collector-Emitter Saturation Voltage	V <sub>CE (sat)</sub>	I <sub>C</sub> = 500mA, I <sub>B</sub> = 50mA	—	0.30	1.0	V
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> = 5V, I <sub>C</sub> = 500mA	—	0.78	1.0	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> = 5V, I <sub>C</sub> = 100mA	—	120	—	MHz
Collector Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10V, I <sub>E</sub> = 0, f = 1MHz	—	15	—	pF

Note : h<sub>FE</sub> Classification    O : 80~160,    Y : 120~240

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