

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

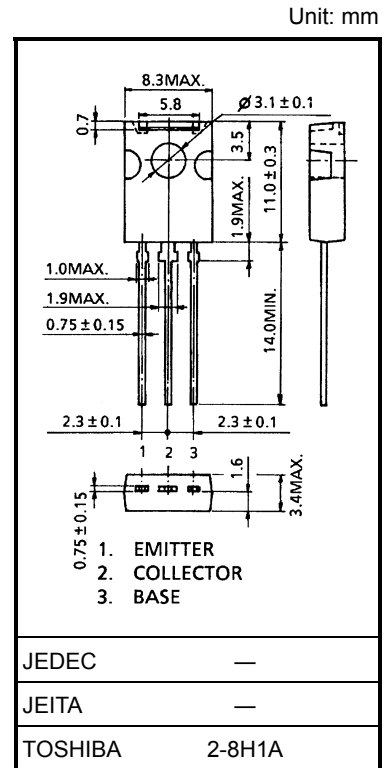
2SC3421

Audio Frequency Power Amplifier Applications

- Complementary to 2SA1358
- Suitable for driver of 60 to 80 watts audio amplifier
- High breakdown voltage

Maximum Ratings (Tc = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	120	V
Collector-emitter voltage	V _{CEO}	120	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	1	A
Base current	I _B	100	mA
Collector power dissipation	P _C	T _a = 25°C	1.5
		T _c = 25°C	10
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C



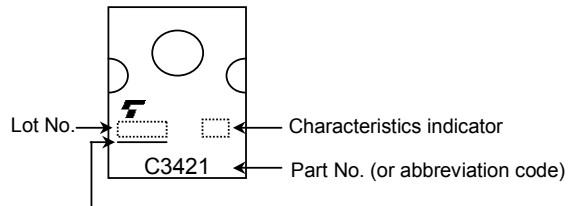
Weight: 0.82 g (typ.)

Electrical Characteristics (Tc = 25°C)

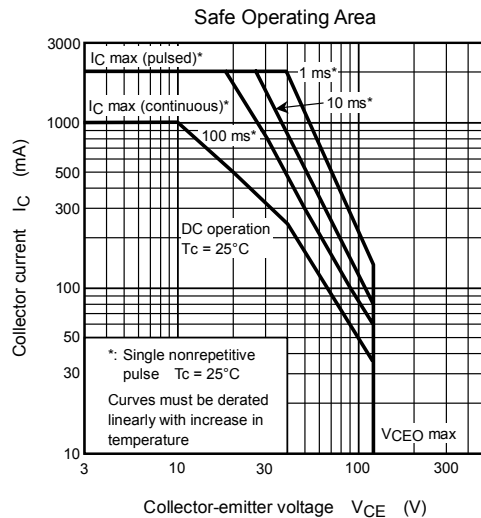
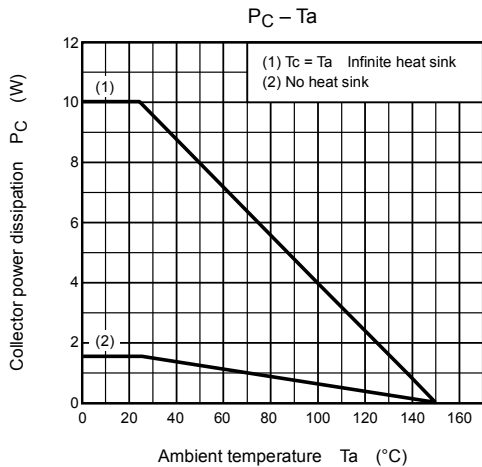
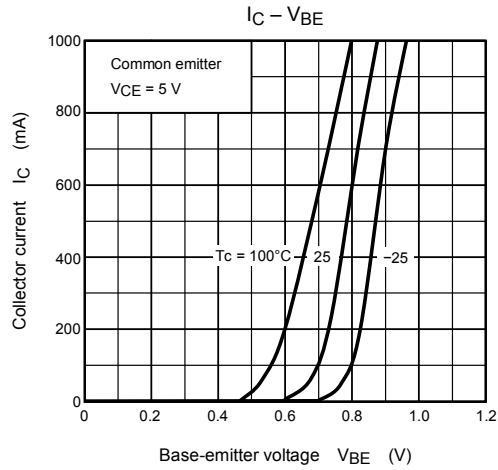
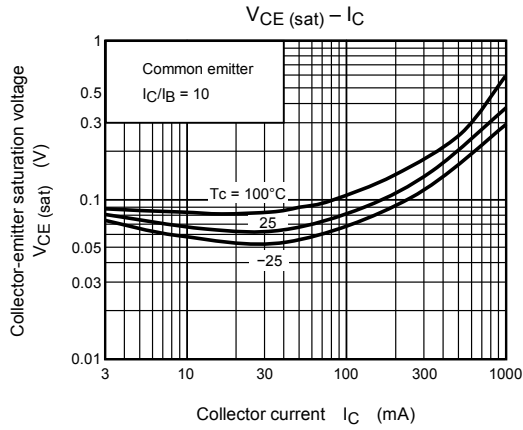
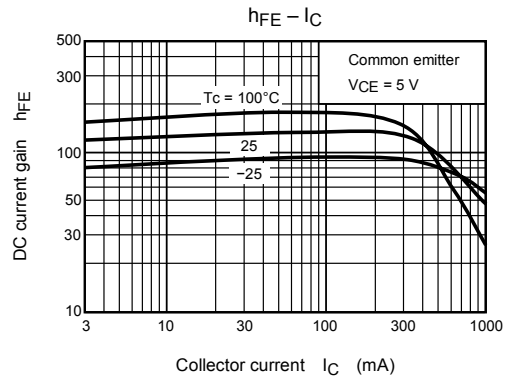
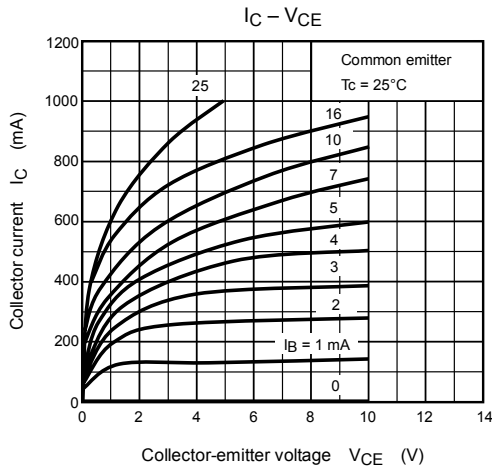
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I _{CB0}	V _{CB} = 120 V, I _E = 0	—	—	100	nA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	—	—	100	nA
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 10 mA, I _B = 0	120	—	—	V
DC current gain	h _{FE} (Note)	V _{CE} = 5 V, I _C = 100 mA	80	—	240	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 500 mA, I _B = 50 mA	—	0.30	1.0	V
Base-emitter voltage	V _{BE}	V _{CE} = 5 V, I _C = 500 mA	—	0.78	1.0	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 100 mA	—	120	—	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	—	15	—	pF

Note: h_{FE} classification O: 80 to 160, Y: 120 to 240

Marking



A line indicates
lead (Pb)-free package or
lead (Pb)-free finish.



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