TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

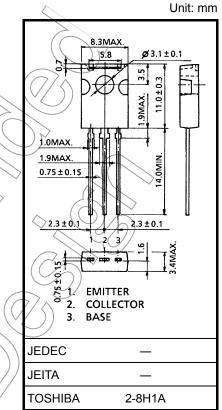
2SC3423

Audio Frequency Amplifier Applications

- Complementary to 2SA1360
- Small collector output capacitance: C_{ob} = 1.8 pF (typ.)
- High transition frequency: $f_T = 200 \text{ MHz}$ (typ.)

Absolute Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit
Collector-base voltage		V _{CBO}	150	(\mathcal{N})
Collector-emitter voltage		V _{CEO}	150	$\langle \psi \rangle$
Emitter-base voltage		V _{EBO}	5) >
Collector current		Ι _C	50	mA
Base current		Ι _Β	5	∼ mA
Collector power dissipation	Ta = 25°C	Pc	1.2	W
	Tc = 25°C	FC	5	VV
Junction temperature		Tj	150	< C
Storage temperature range		Tstg	-55 to 150	ઝજ



Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e.

Weight: 0.82 g (typ.)

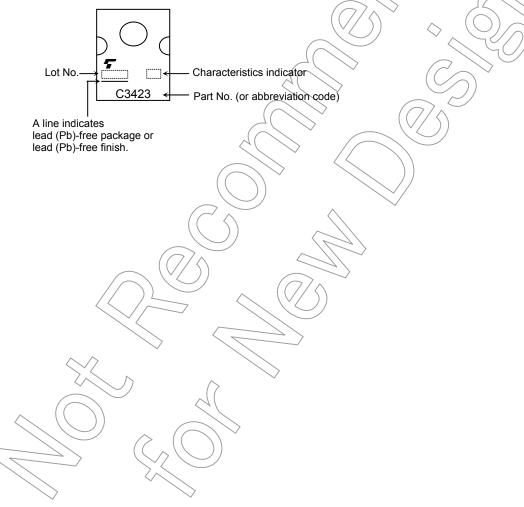
operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Electrical Characteristics (Tc = 25°C)

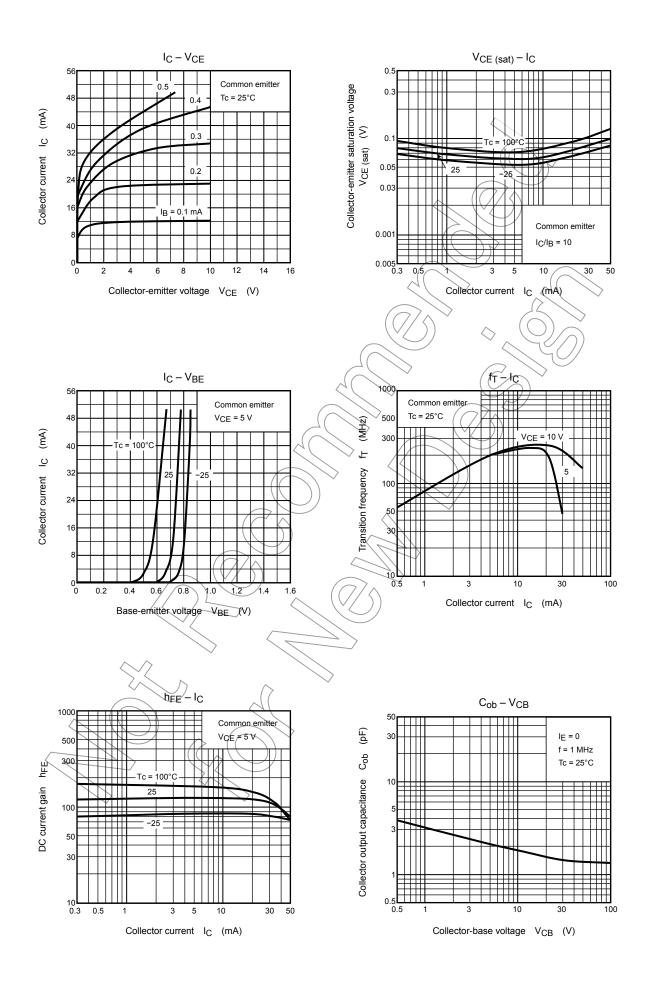
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 150 V, I _E = 0	_	_	0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	—	—	0.1	μA
DC current gain	h _{FE} (Note)	۷ _{CE} = 5 V, I _C = 10 mA	80	1	240	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 10 mA, I _B = 1 mA		-4(1.0	V
Base-emitter voltage	V _{BE}	V _{CE} = 5 V, I _C = 10 mA	\sum	_	0.8	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 10 mA	\bigcirc	200	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz		1.8	_	pF

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

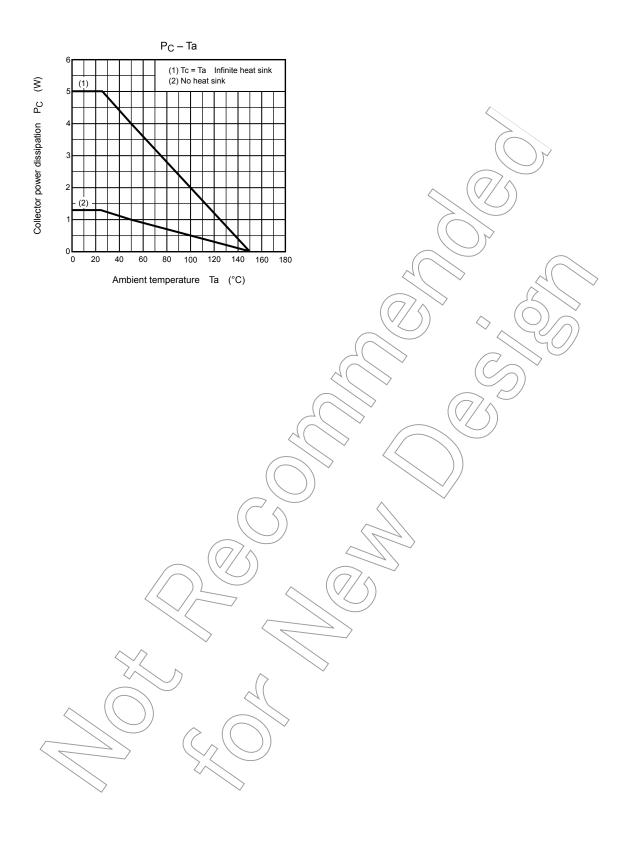
Marking



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Handbook" etc.

• The information contained herein is subject to change without notice.

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