TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

2SC3423

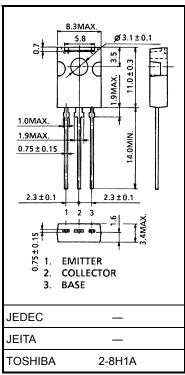
Audio Frequency Amplifier Applications

Unit: mm

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

Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V_{CBO}	150	V	
Collector-emitter voltage		V _{CEO}	150	V	
Emitter-base voltage		V _{EBO}	5	V	
Collector current		I _C	50	mA	
Base current		Ι _Β	5	mA	
Collector power dissipation	Ta = 25°C	Pc	1.2	W	
	Tc = 25°C	1 0	5		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	



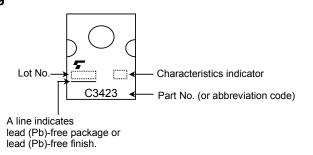
Weight: 0.82 g (typ.)

Electrical Characteristics (Tc = 25°C)

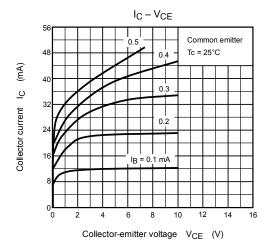
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 150 V, I _E = 0	_	_	0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μA
DC current gain	h _{FE} (Note)	V _{CE} = 5 V, I _C = 10 mA	80	_	240	
Collector-emitter saturation voltage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

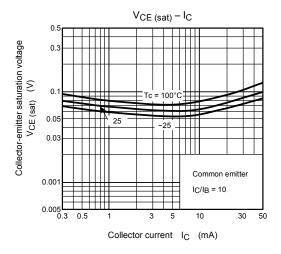
Note: hFE classification O: 80 to 160, Y: 120 to 240

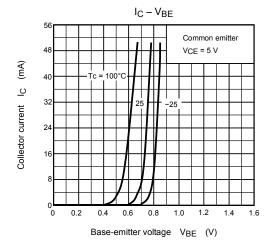
Marking

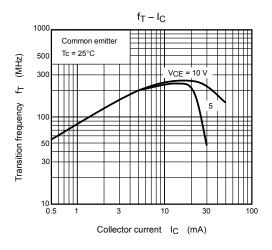


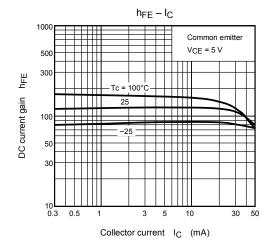
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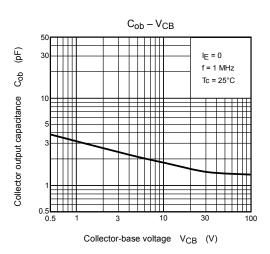


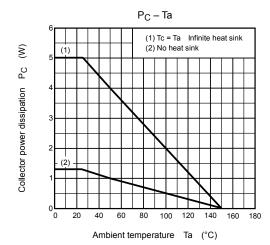












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