TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

2SA1360

Audio Frequency Amplifier Applications

Unit: mm

- Complementary to 2SC3423
- Small collector output capacitance: $C_{ob} = 2.5 \text{ pF (typ.)}$
- 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	V	
Collector-emitter voltage		V _{CEO}	-150	V	
Emitter-base voltage		V _{EBO}	-5	V	
Collector current		IC	-50	mA	
Base current		Ι _Β	-5	mA	
Collector power dissipation	Ta = 25°C	Pc	1.2	W	
	Tc = 25°C	FC FC	5		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	

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.

8.3MAX.
5.8
93.1±0.1

1.0MAX.
1.9MAX.
0.75±0.15

2.3±0.1

2.3±0.1

XVWW.

1. EMITTER
2. COLLECTOR
3. BASE

JEDEC

JEITA

TOSHIBA
2-8H1A

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).

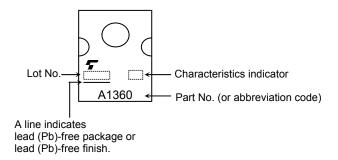


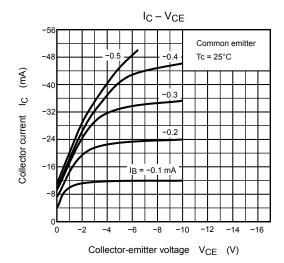
Electrical Characteristics (Tc = 25°C)

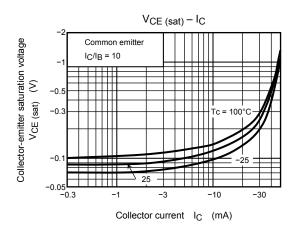
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -150 \text{ V}, I_E = 0$	_	_	-0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$	_	_	-0.1	μA
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -1 \text{ mA}, I_B = 0$	-150	_	_	V
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}	$V_{CE} = -5 \text{ V}, I_{C} = -10 \text{ mA}$	_	_	-0.8	V
Transition frequency	f _T	$V_{CE} = -5 \text{ V}, I_{C} = -10 \text{ mA}$	_	200	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_	2.5	_	pF

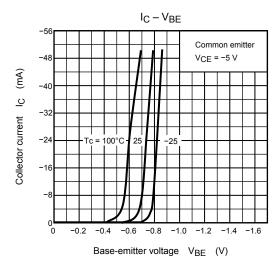
Note: hFE classification O: 80 to 160, Y: 120 to 240

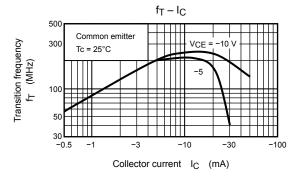
Marking

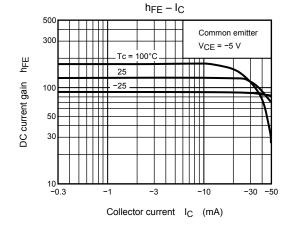


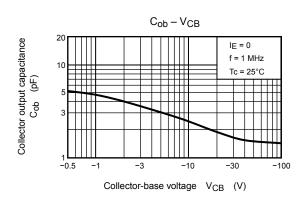


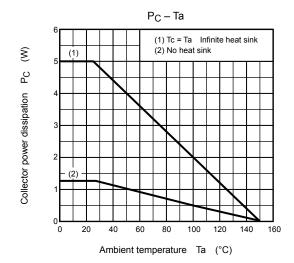












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