TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

2SA1426

Audio Power Amplifier Applications

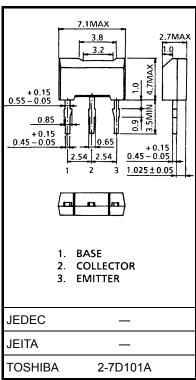
Unit: mm

- High hFE: hFE = 100 to 320
- 1-W output applications
- Complementary to 2SC3666.

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-35	V
Collector-emitter voltage	V _{CEO}	-30	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	IC	-800	mA
Base current	Ι _Β	-160	mA
Collector power dissipation	PC	1000	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	−55 to 150	°C

Note1: 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: 0.2 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).

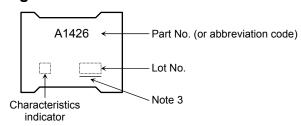


Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -35 \text{ V}, I_{E} = 0$	_	_	-100	nA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$	_	_	-100	nA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = -10 mA	-30	_	_	V
DC current gain	h _{FE (1)} (Note 2)	V _{CE} = -1 V, I _C = -100 mA	100	_	320	
	h _{FE (2)}	V _{CE} = -1 V, I _C = -700 mA	35	_	_	
Collector-emitter saturation voltage	V _{CE} (sat)	$I_C = -500 \text{ mA}, I_B = -20 \text{ mA}$	_	_	-0.7	V
Base-emitter voltage	V _{BE}	V _{CE} = -1 V, I _C = -10 mA	-0.5	_	-0.8	V
Transition frequency	f _T	$V_{CE} = -5 \text{ V}, I_{C} = -10 \text{ mA}$	_	120	_	MHz
Collector output capacitance	C _{ob}	V _{CE} = −10 V, f = 1 MHz, I _E = 0	_	19	_	pF

Note 2: h_{FE (1)} classification O: 100 to 200, Y: 160 to 320

Marking

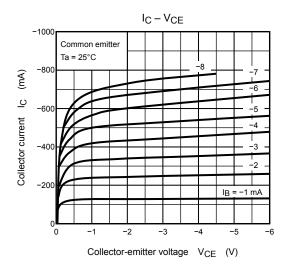


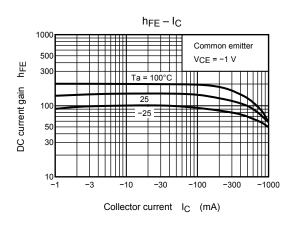
Note 3: A line under a Lot No. identifies the indication of product Labels.

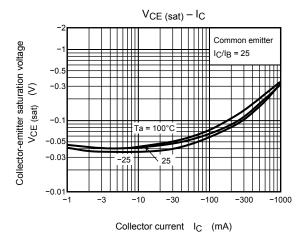
Not underlined: [[Pb]]/INCLUDES > MCV

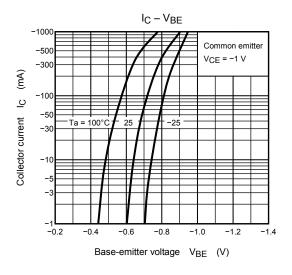
Underlined: [[G]]/RoHS COMPATIBLE or [[G]]/RoHS [[Pb]]

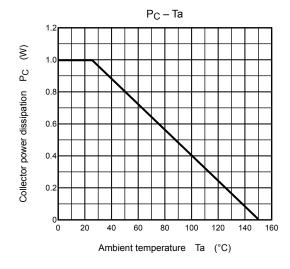
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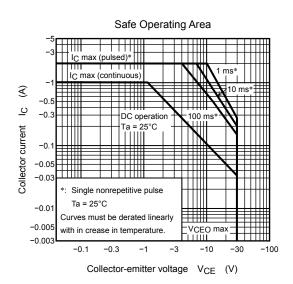












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