

2SA1426

Audio Power Amplifier Applications

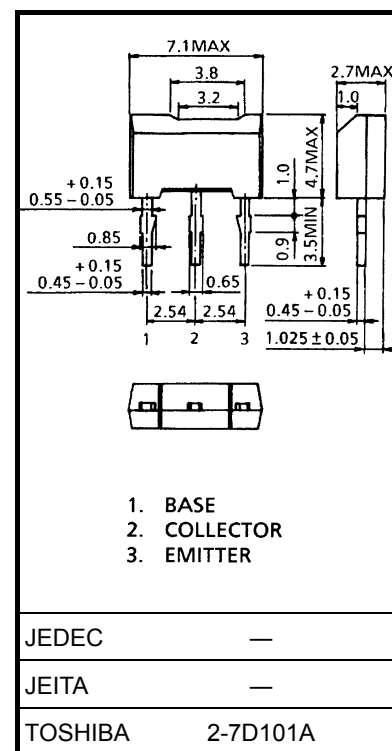
- High h_{FE} : $h_{FE} = 100$ to 320
- 1-W output applications
- Complementary to 2SC3666.

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	I_C	-800	mA
Base current	I_B	-160	mA
Collector power dissipation	P_C	1000	mW
Junction temperature	T_j	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. 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.).

Unit: mm



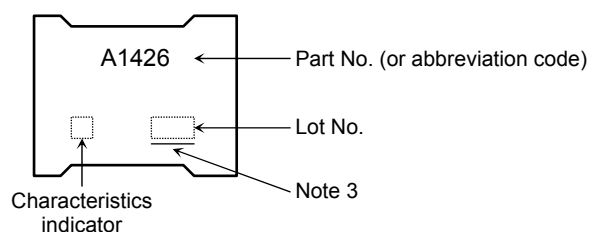
Weight: 0.2 g (typ.)

Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	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	$V_{(BR) CEO}$	$I_C = -10\text{ mA}$	-30	—	—	V
DC current gain	$h_{FE} (1)$ (Note 2)	$V_{CE} = -1\text{ V}, I_C = -100\text{ mA}$	100	—	320	
	$h_{FE} (2)$	$V_{CE} = -1\text{ V}, I_C = -700\text{ mA}$	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}	$V_{CE} = -1\text{ V}, I_C = -10\text{ mA}$	-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}	$V_{CE} = -10\text{ V}, f = 1\text{ MHz}, I_E = 0$	—	19	—	pF

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

Marking

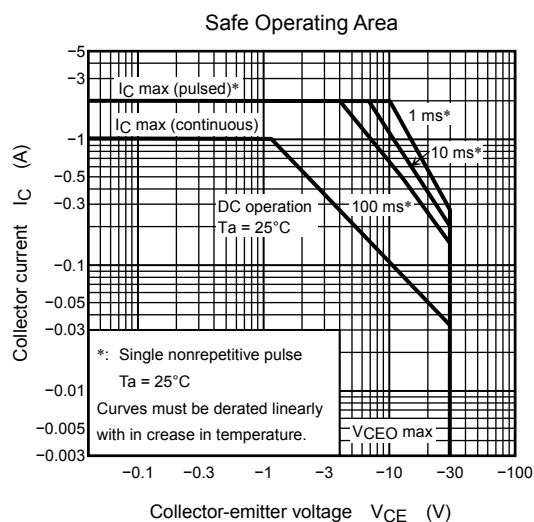
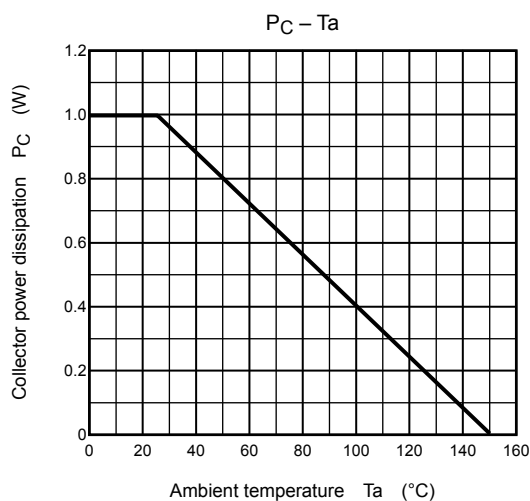
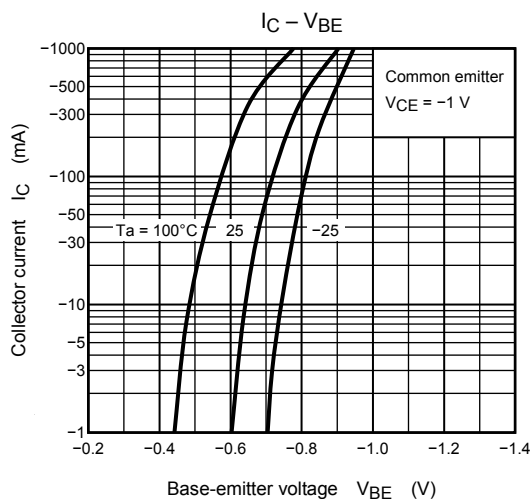
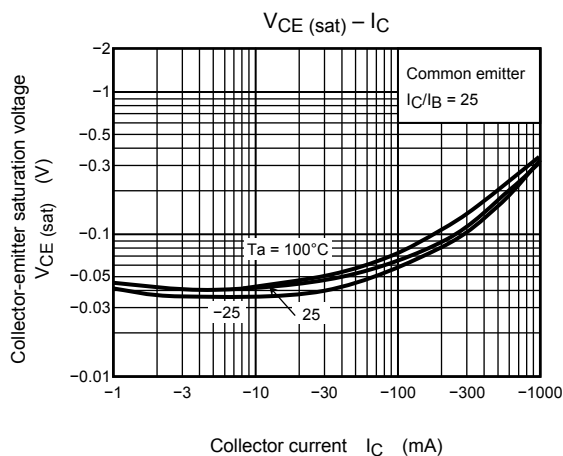
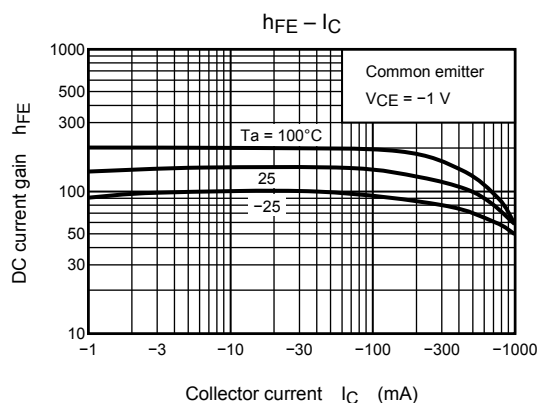
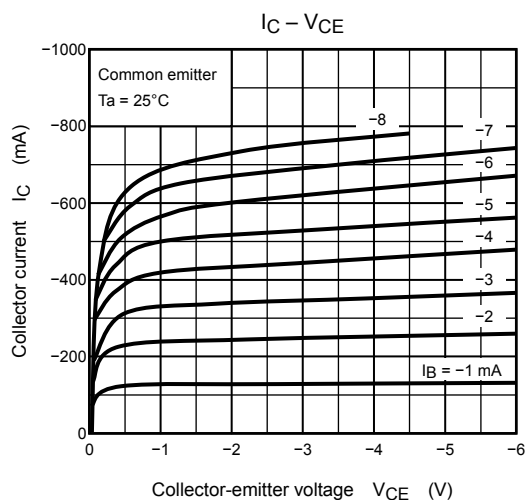


Note 3: A line under a Lot No. identifies the indication of product Labels.

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

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

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