Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

2SA1425

Power Amplifier Applications
Driver-Stage Amplifier Applications

• Complementary to 2SC3665.

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-120	V
Collector-emitter voltage	V_{CEO}	-120	(\sqrt{y})
Emitter-base voltage	V _{EBO}	-5	$\backslash \backslash \backslash$
Collector current	IC	-800	mΑ
Base current	ΙΒ	-⁄80	> 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. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

7.1MAX

3.8

3.8

2.7MAX

0.55-0.05

0.85

0.45-0.05

1. BASE
2. COLLECTOR
3. EMITTER

JEDEC

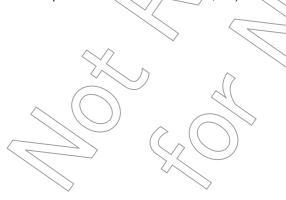
JEITA

TOSHIBA

2-7D101A

Weight: 0.2 g (typ.)

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.).

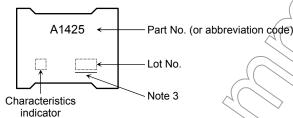


Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = -120 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	$I_C = -10 \text{ mA}, I_B = 0$	-120		-	V
Emitter-base breakdown voltage	V _(BR) EBO	$I_E = -1 \text{ mA}, I_C = 0$	_5_	/	-	V
DC current gain	h _{FE} (Note 2)	V _{CE} = -5 V, I _C = -100 mA	80))_	240	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = -500 mA, I _B = -50 mA	$\bigcirc)$	_	-1.0	V
Base-emitter voltage	V _{BE}	V _{CE} = -5 V, I _C = -500 mA	_		-1.0	V
Transition frequency	f _T	V _{CE} = -5 V, I _C = -100 mA	_	120	-	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_		40	pF

Note 2: hFE classification O: 80 to 160, Y: 120 to 240

Marking

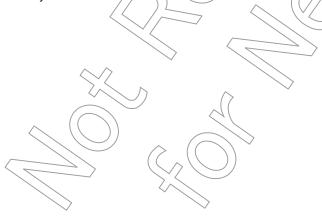


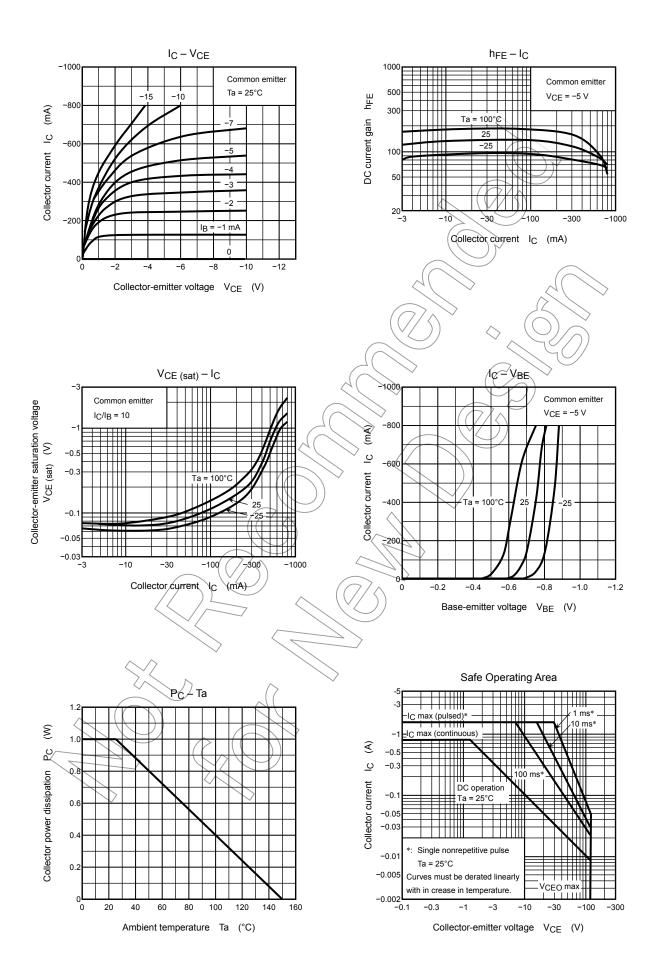
Note 3: A line under a Lot No. identifies the indication of product Labels.

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

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

Please contact your TOSHIBA sales representative for details as to environmental matters such as the RoHS compatibility of Product. The RoHS is the Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.





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