Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

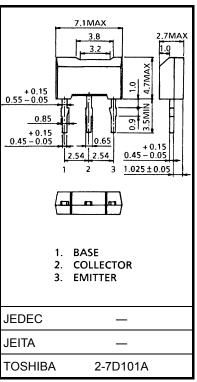
2SA1432

High Voltage Control Applications
Plasma Display, Nixie Tube Driver Applications
Cathode Ray Tube Brightness Control Applications

- High voltage: $V_{CBO} = -300 \text{ V}$, $V_{CEO} = -300 \text{ V}$
- Low saturation voltage: $V_{CE (sat)} = -0.5 \text{ V (max)}$
- Small collector output capacitance: Cob = 6 pF (typ.)
- Complementary to 2SC3672

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V _{CBO}	-300	V	
Collector-emitter voltage	V _{CEO}	-300	V	
Emitter-base voltage	V _{EBO}	-8	V	
Collector current	IC	-100	mA	
Base current	ΙΒ	-20	mA	
Collector power dissipation	PC	1000	mW	
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	-55 to 150	°C	



Weight: 0.2 g (typ.)

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).

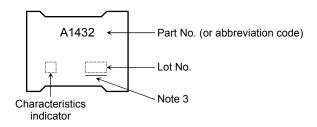


Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CE} = -300 \text{ V}, I_{E} = 0$	_	_	-0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = -8 V, I _C = 0	_	_	-0.1	μΑ
Collector-base breakdown voltage	V (BR) CBO	$I_C = -0.1 \text{ mA}, I_E = 0$	-300	_	_	٧
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -1 \text{ mA}, I_B = 0$	-300	_	_	٧
DC current gain	h _{FE (1)} (Note 2)	V _{CE} = -10 V, I _C = -20 mA	30	_	150	
	h _{FE} (2)	V _{CE} = -10 V, I _C = -1 mA	20	_	_	
Collector-emitter saturation voltage	V _{CE} (sat)	$I_C = -20 \text{ mA}, I_B = -2 \text{ mA}$	_	_	-0.5	V
Base-emitter saturation voltage	V _{BE} (sat)	$I_C = -20 \text{ mA}, I_B = -2 \text{ mA}$	_	_	-1.2	V
Transition frequency	f _T	V _{CE} = -10 V, I _C = -20 mA	40	60	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = -20 V, I _E = 0, f = 1 MHz	_	6	8	pF

Note 2: h_{FE (1)} classification R: 30 to 90, O: 50 to 150

Marking

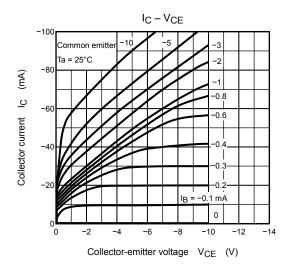


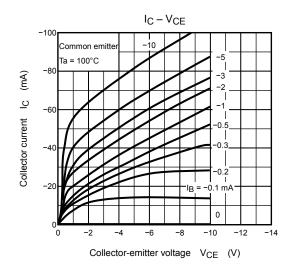
Note 3: A line under a Lot No. identifies the indication of product Labels.

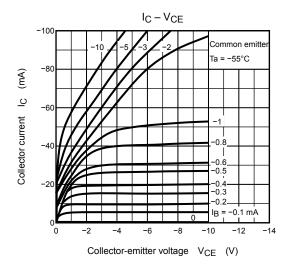
Not underlined: [[Pb]]/INCLUDES > MCV

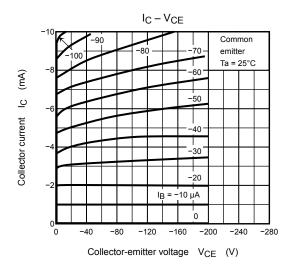
Underlined: [[G]]/RoHS COMPATIBLE or [[G]]/RoHS [[Pb]]

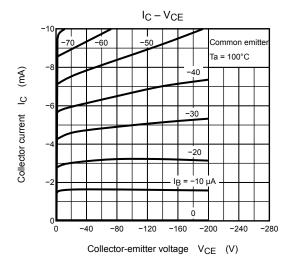
Please contact your TOSHIBA sales representative for details as to environmental matters such as the RoHS compatibility of Product. The RoHS is the Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical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

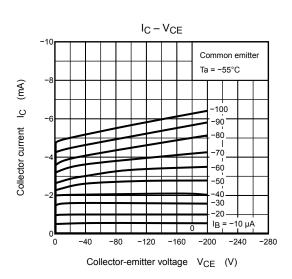


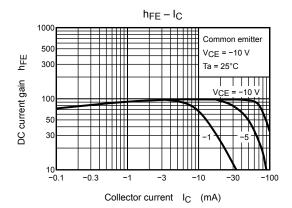


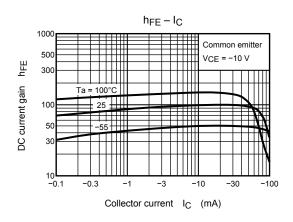


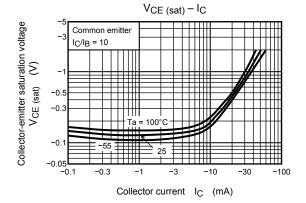


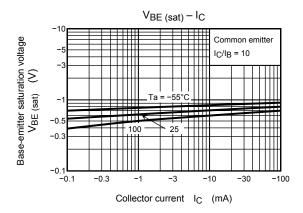


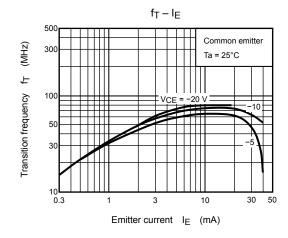


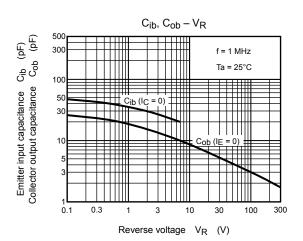


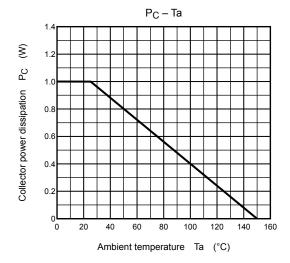


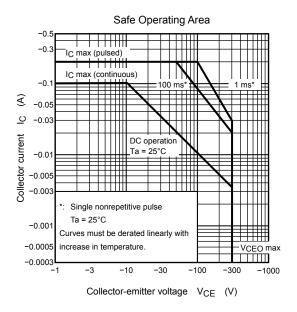












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