Unit: mm

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

2SC3621

Color TV Vertitcal Deflection Output Applications Color TV Class-B Sound Output Applications

- Large collector current and collector power dissipation capability
- Recommended for vertical deflection output and sound output applications for line-operated TVs.
- Complementary to 2SA1408.

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}	6	V	
Collector current		IC	1.5	Α	
Base current		ΙΒ	1.0	Α	
Collector power dissipation	Ta = 25°C	P _C	1.5	W	
	Tc = 25°C	FC	10		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	

8.3MAX.
5.8

93.1±0.1

1.0MAX.
1.9MAX.
0.75±0.15

2.3±0.1

2.3±0.1

2.3±0.1

2.3±0.1

2.3±0.1

2.3±0.1

1.2 3

9

1. EMITTER
2. COLLECTOR
3. BASE

JEDEC

JEITA

TOSHIBA

2-8H1A

Weight: 0.82 g (typ.)

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. 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).

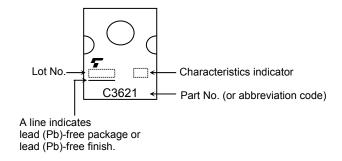


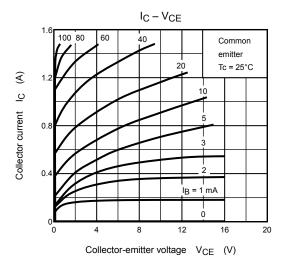
Electrical Characteristics (Tc = 25°C)

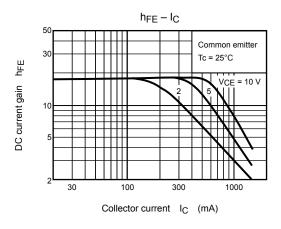
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 150 V, I _E = 0	_	_	1.0	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 6 V, I _C = 0	_	_	1.0	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	150	_	_	V
DC current gain	h _{FE} (Note)	V _{CE} = 5 V, I _C = 200 mA	100	_	320	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 500 mA, I _B = 50 mA	_	_	1.5	V
Base-emitter voltage	V _{BE}	V _{CE} = 5 V, I _C = 5 mA	0.5	_	0.8	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 200 mA	20	100	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	13	20	pF

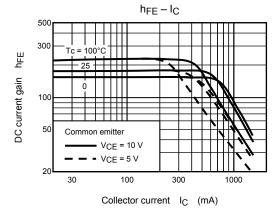
Note: hFE classification O: 100 to 200, Y: 160 to 320

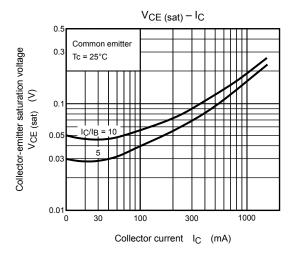
Marking

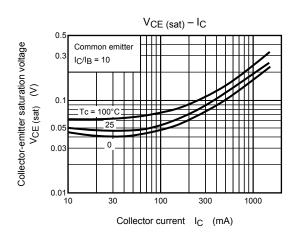


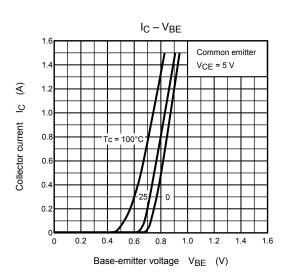




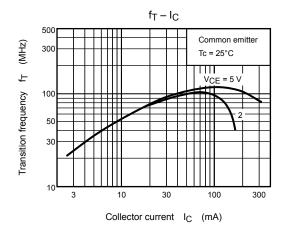


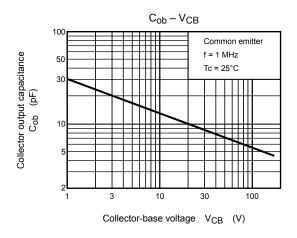


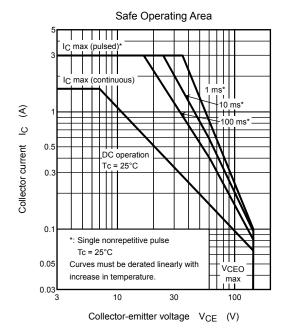




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20070701-EN

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