Unit: mm

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

2SC1627

Driver Stage Amplifier Applications Voltage Amplifier Applications

- Complementary to 2SA817
- Driver stage application of 20 to 25 watts amplifiers.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	80	V
Collector-emitter voltage	V _{CEO}	80	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	Ic	300	mA
Base current	Ι _Β	60	mA
Collector power dissipation	PC	600	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~125	°C

0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 1.27 0.45 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27

Weight: 0.21 g (typ.)

JEDEC

JEITA

TOSHIBA

3. BASE

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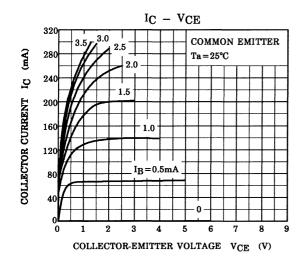
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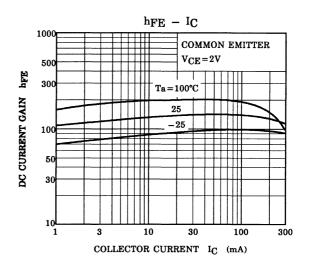
Electrical Characteristics (Ta = 25°C)

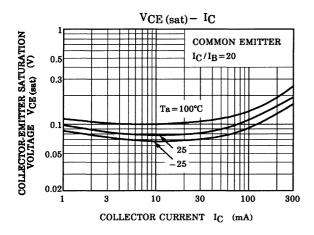
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = 50 \text{ V}, I_{E} = 0$	_	_	0.1	μА
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μΑ
Collector-emitter saturation voltage	V (BR) CEO	$I_C = 5 \text{ mA}, I_B = 0$	80	_	_	V
DC current gain	h _{FE (1)} (Note)	V _{CE} = 2 V, I _C = 50 mA	70	_	240	
	h _{FE (2)}	V _{CE} = 2 V, I _C = 200 mA	40	_	_	
Collector-emitter saturation voltage	V _{CE} (sat)	$I_C = 200 \text{ mA}, I_B = 10 \text{ mA}$	_	_	0.5	V
Base-emitter voltage	V _{BE}	$V_{CE} = 2 \text{ V}, I_{C} = 5 \text{ mA}$	0.55	_	0.8	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 10 mA	_	100	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	_	10	_	pF

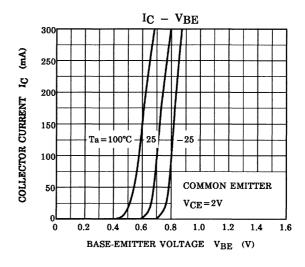
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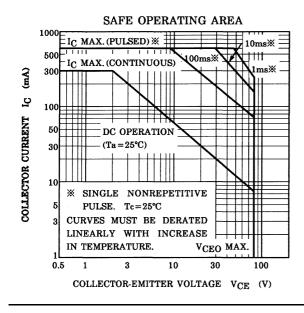
Note: h_{FE (1)} classification O: 70~140, Y: 120~240

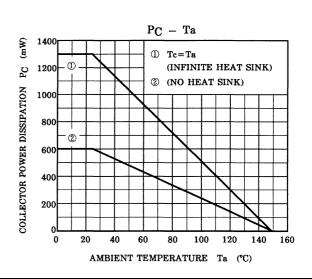












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