TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

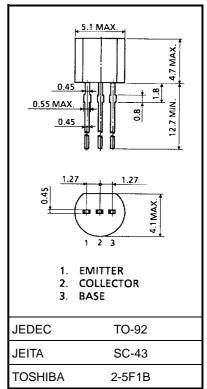
2SC1627

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	Ι _C	300	mA	
Base current	Ι _Β	60	mA	
Collector power dissipation	P _C	600	mW	
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	-55~125	°C	



Weight: 0.21 g (typ.)

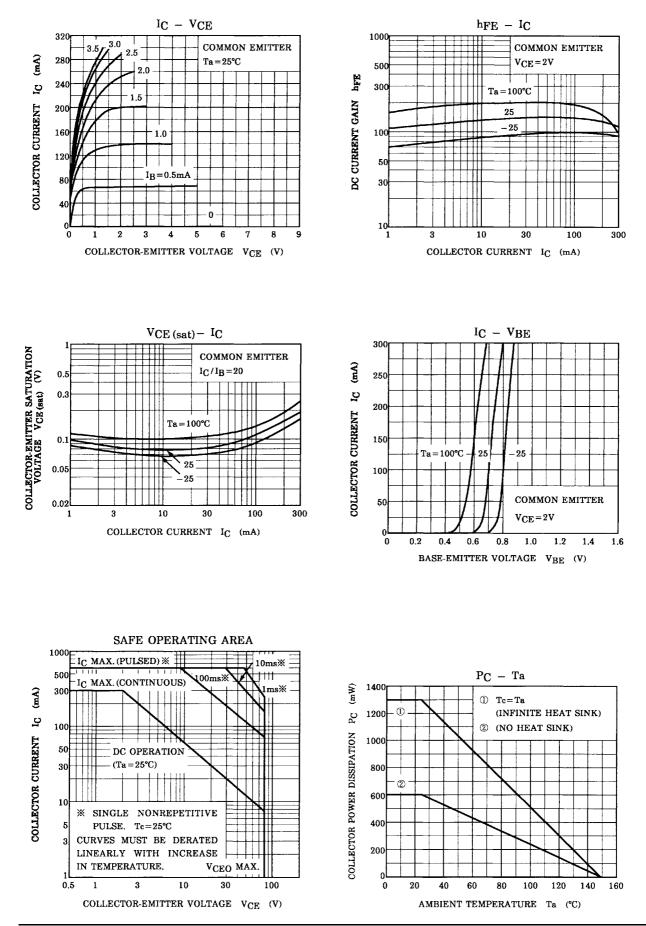
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = 50 V, I_{E} = 0$	_	_	0.1	μA
Emitter cut-off current	I _{EBO}	$V_{EB} = 5 V, I_{C} = 0$	_	_	0.1	μA
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)}	$V_{CE} = 2 \text{ V}, I_{C} = 200 \text{ mA}$	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}	$V_{CE} = 2 \text{ V}, \text{ I}_{C} = 5 \text{ mA}$	0.55	_	0.8	V
Transition frequency	f _T	$V_{CE} = 10 \text{ V}, \text{ I}_{C} = 10 \text{ mA}$	_	100	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, \text{ I}_{E} = 0, \text{ f} = 1 \text{ MHz}$	_	10	_	pF

Note: hFE (1) classification O: 70~140, Y: 120~240

Unit: mm

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