TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

2SC3295

Audio Frequency Amplifier Applications Switching Applications

High hFE: hFE = 600~3600
 High voltage: VCEO = 50 V

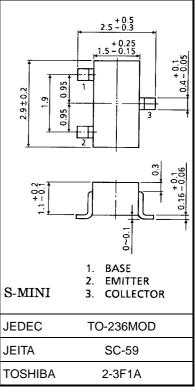
• High collector current: IC = 150 mA (max)

• Small package

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	50	V
Collector-emitter voltage	V _{CEO}	50	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	IC	150	mA
Base current	ΙΒ	30	mA
Collector power dissipation	PC	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C

Unit: mm



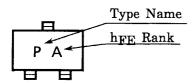
Weight: 0.012 g (typ.)

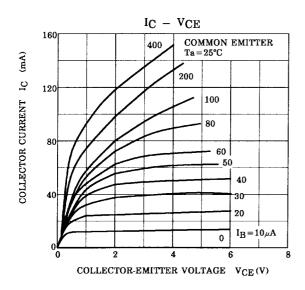
Electrical Characteristics (Ta = 25°C)

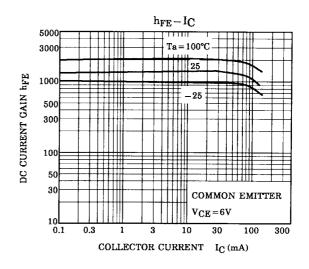
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = 50 \text{ V}, I_{E} = 0$	_	_	0.1	μА
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μА
DC current gain	h _{FE} (Note)	V _{CE} = 6 V, I _C = 2 mA	600	_	3600	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 100 mA, I _B = 10 mA	_	0.12	0.25	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 10 mA	100	250	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	_	3.5	_	pF
Noise figure	NF (1)	$V_{CE} = 6 \text{ V}, I_{C} = 0.1 \text{ mA}, f = 100 \text{ Hz}, R_g = 10 \text{ k}\Omega$	_	0.5	_	- dB
	NF (2)	$\begin{split} &V_{CE}=6 \text{ V, I}_{C}=0.1 \text{ mA, f}=1 \text{ kHz,} \\ &R_{g}=10 \text{ k}\Omega \end{split}$	_	0.3	_	

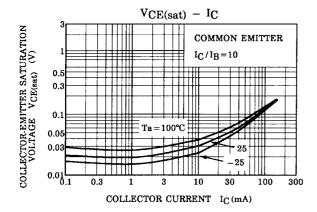
Note: hFE classification A: 600~1800, B: 1200~3600

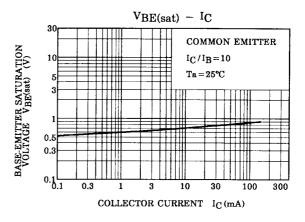
Marking

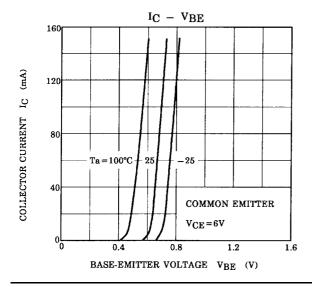


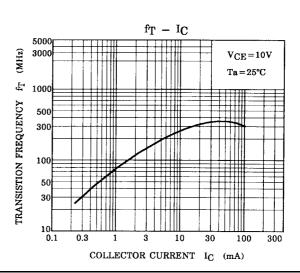




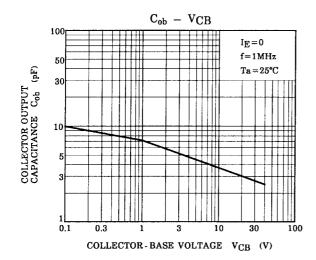


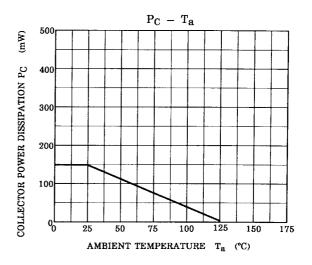






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