TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1587

Audio Frequency General Purpose Amplifier Applications

Unit: mm

• High voltage: $V_{CEO} = -120 \text{ V}$

• Excellent hFE linearity: hFE (IC = -0.1 mA)/hFE (IC = -2 mA) = 0.95 (typ.)

• High hFE: hFE = $200 \sim 700$

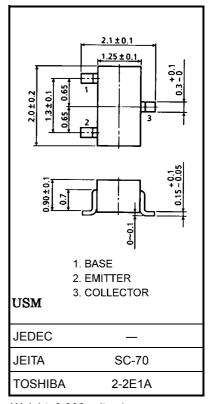
• Low noise: NF = 1dB (typ.), 10dB (max)

• Complementary to 2SC4117

• Small package

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-120	V
Collector-emitter voltage	V _{CEO}	-120	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	IC	-100	mA
Base current	ΙΒ	-20	mA
Collector power dissipation	PC	100	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



Weight: 0.006 g (typ.)

Electrical Characteristics (Ta = 25°C)

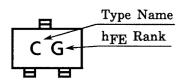
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -120 \text{ V}, I_E = 0$	_	_	-0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_{C} = 0$			-0.1	μΑ
DC current gain	h _{FE} (Note)	$V_{CE} = -6 \text{ V}, I_{C} = -2 \text{ mA}$	200		700	
Collector-emitter saturation voltage	V _{CE (sat)}	$I_C = -10 \text{ mA}, I_B = -1 \text{ mA}$	_	_	-0.3	V
Transition frequency	f _T	$V_{CE} = -6 \text{ V}, I_{C} = -1 \text{ mA}$	_	100	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	_	4	_	pF
Noise figure	NF	$V_{CE} = -6 \text{ V}, I_{C} = -0.1 \text{ mA}, f = 1 \text{ kHz},$ $Rg = 10 \text{ k}\Omega$	_	1.0	10	dB

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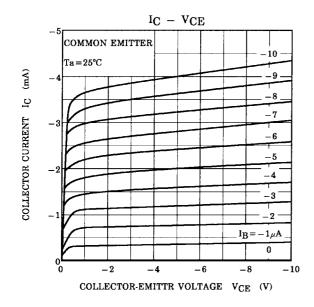
Note: hFE classification GR (G): 200~400, BL (L): 350~700

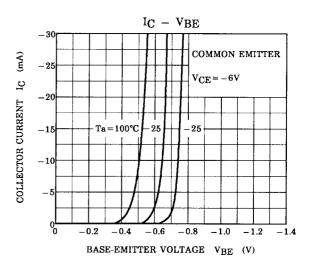
() marking symbol

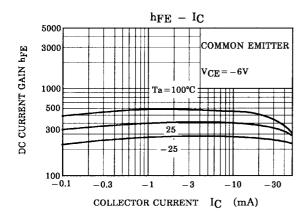
Marking

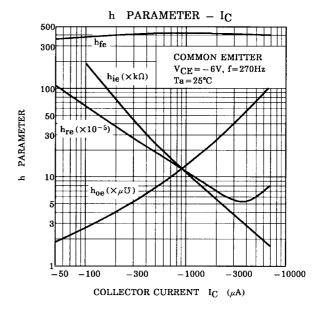


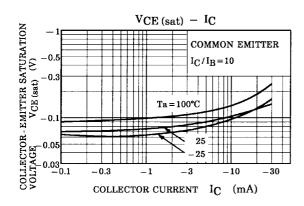
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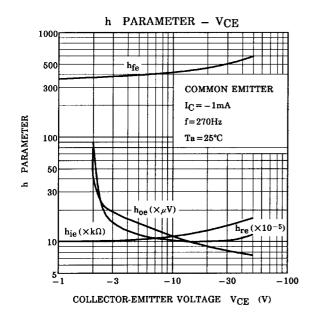


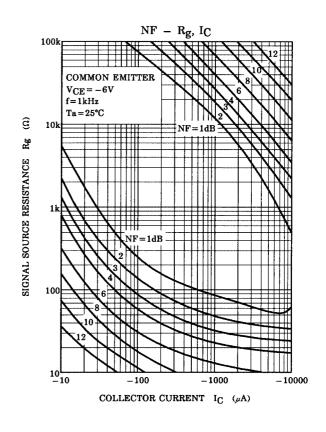


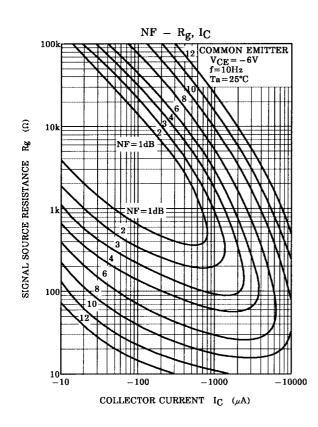


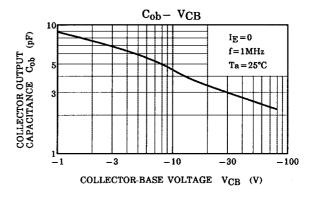


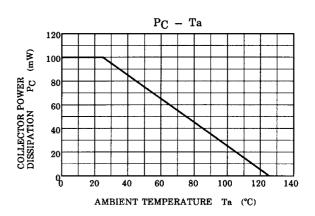












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