Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial (PCT process)

2SA1182

Audio Frequency Low Power Amplifier Applications
Driver Stage Amplifier Applications
Switching Applications

• Excellent hFE linearity: hFE (2) = 25 (min) at VCE = -6 V, IC = -400 mA

• Complementary to 2SC2859.

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-35	V
Collector-emitter voltage	V_{CEO}	-30	V
Emitter-base voltage	V_{EBO}	- 5	V
Collector current	IC	-500	mA
Base current	lΒ	-50	mA
Collector power dissipation	PC	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55 to 125	°C

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.

1. BASE
2. EMITTER
3. COLLECTOR

JEDEC TO-236MOD

JEITA SC-59

TOSHIBA 2-3F1A

Weight: 0.012 g (typ.)

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 (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -35 \text{ V}, I_E = 0$	_	_	-0.1	μА
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$	_	_	-0.1	μА
DC current gain	h _{FE (1)} (Note)	V _{CE} = -1 V, I _C = -100 mA	70	_	400	_
	h _{FE (2)} (Note)	$V_{CE} = -6 \text{ V}, I_{C} = -400 \text{ mA}$	25	_	_	
Collector-emitter saturation voltage	V _{CE} (sat)	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$	_	-0.1	-0.25	V
Base-emitter voltage	V _{BE}	V _{CE} = -1 V, I _C = -100 mA	_	-0.8	-1.0	V
Transition frequency	f _T	$V_{CE} = -6 \text{ V}, I_{C} = -20 \text{ mA}$	_	200	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -6 \text{ V}, I_E = 0, f = 1 \text{ MHz}$	_	13		pF

Note: h_{FE} (1) classification O(0): 70 to 140, Y(Y): 120 to 240, GR(G): 200 to 400 () Marking Symbol h_{FE} (2) classification O: 25 (min), Y: 40 (min), GR: 70 (min)

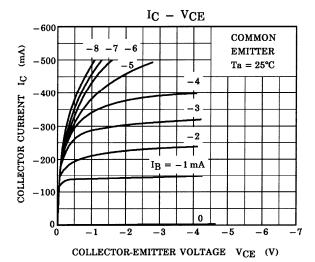
Marking

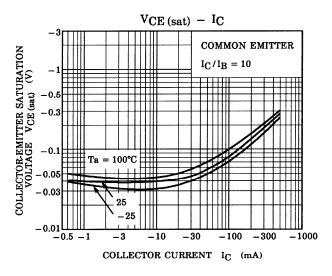


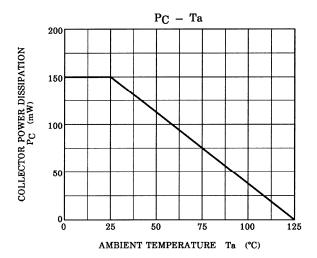
Z: Type Name

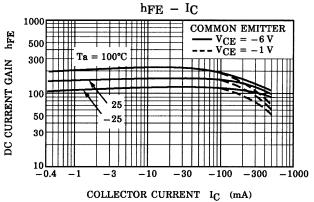
O: hFE Rank

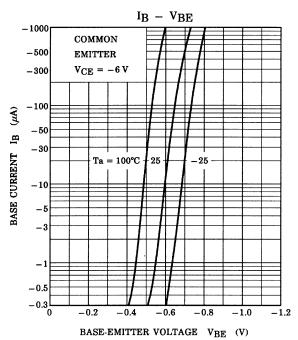
Start of commercial production 1982-12











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2SA1182-Y(TE85L,F) 2SA1182-Y,LF 2SA1182-GR,LF



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- Консультации по применению компонента;
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- Техническая поддержка проекта;
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