

トランジスタ

2SC1787

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シリコン NPN エピタキシャルプレーナ形 / Si NPN Epitaxial Planar

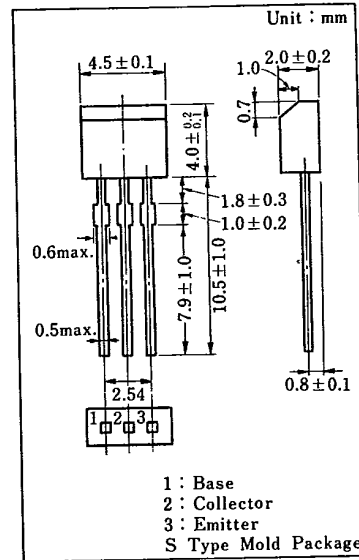
低周波低雑音増幅用 / AF Low-noise Amplifier  
2SA880とコンプリメンタリ / Complementary Pair with 2SA880

### ■ 特徴 / Features

- 雑音電圧 NV が低い。 / Low NV
- 直流電流増幅率  $h_{FE}$  が高い。 / High  $h_{FE}$

### ■ 絶対最大定格 / Absolute Maximum Ratings (Ta=25 °C)

Item	Symbol	Value	Unit
コレクタ・ベース電圧	$V_{CBO}$	35	V
コレクタ・エミッタ電圧	$V_{CEO}$	35	V
エミッタ・ベース電圧	$V_{EBO}$	5	V
せん頭コレクタ電流	$I_{CP}$	100	mA
コレクタ電流	$I_C$	50	mA
コレクタ損失	$P_C$	150	mW
接合部温度	$T_J$	125	°C
保存温度	$T_{stg}$	-55 ~ +125	°C



### ■ 電気的特性 / Electrical Characteristics (Ta=25 °C)

Item	Symbol	Condition	min.	typ.	max.	Unit
コレクタしゃ断電流	$I_{CBO}$	$V_{CB} = 10 V, I_E = 0$			100	nA
	$I_{CEO}$	$V_{CE} = 10 V, I_B = 0$			1	$\mu A$
コレクタ・ベース電圧	$V_{CBO}$	$I_C = 10 \mu A, I_E = 0$	35			V
コレクタ・エミッタ電圧	$V_{CEO}$	$I_C = 1 mA, I_B = 0$	35			V
エミッタ・ベース電圧	$V_{EBO}$	$I_E = 10 \mu A, I_C = 0$	5			V
直流電流増幅率	$h_{FE}^*$	$V_{CE} = 5 V, I_C = 2 mA$	260		700	
コレクタ・エミッタ飽和電圧	$V_{CE(sat)}$	$I_C = 100 mA, I_B = 10 mA$			0.6	V
ベース・エミッタ電圧	$V_{BE}$	$V_{CE} = 1 V, I_C = 100 mA$		0.7	1	V
雑音電圧	NV	$V_{CE} = 10 V, I_C = 1 mA, G_v = 80 dB, R_g = 100 k\Omega, \text{Function} = \text{FLAT}$			150	mV

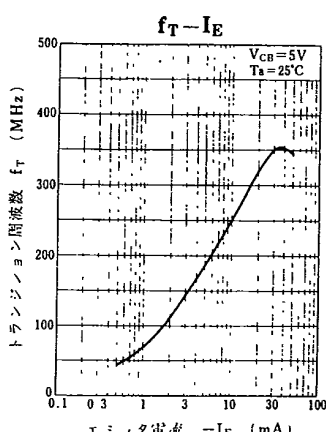
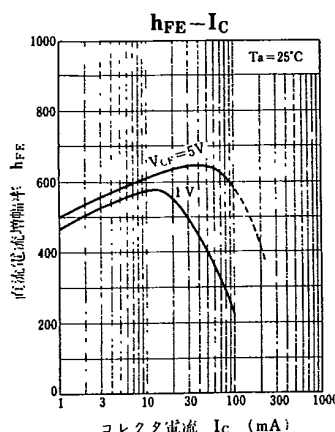
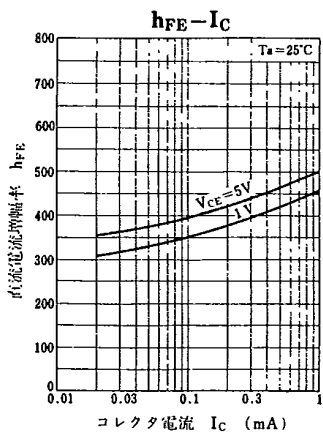
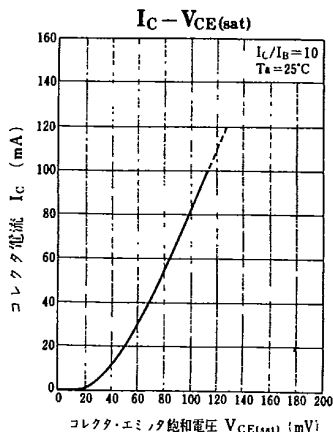
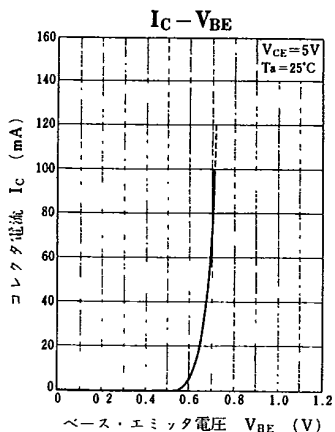
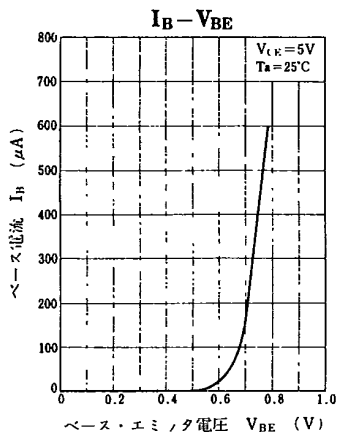
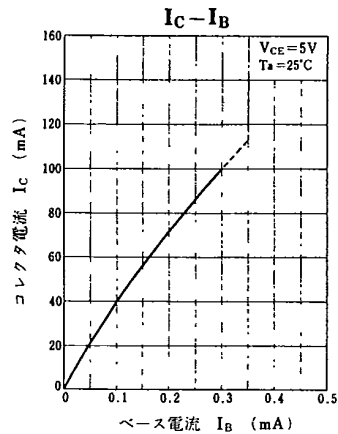
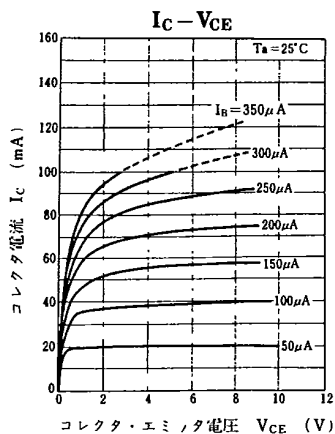
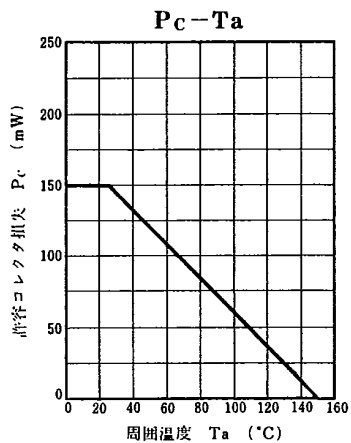
\*  $h_{FE}$  ランク分類 /  $h_{FE}$  Classifications

Class	S	T
$h_{FE}$	260 ~ 520	360 ~ 700

トランジスタ

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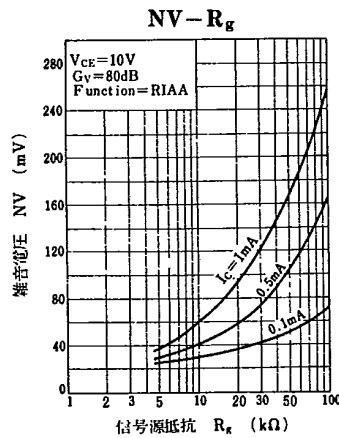
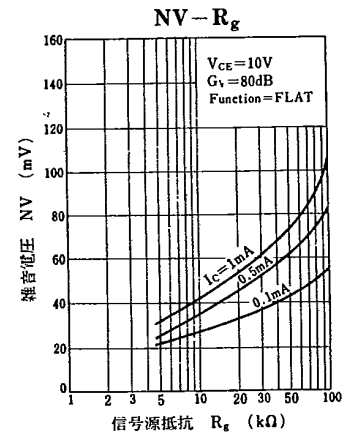
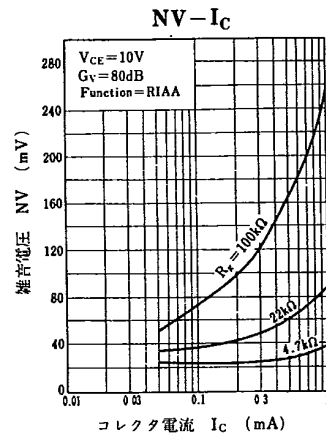
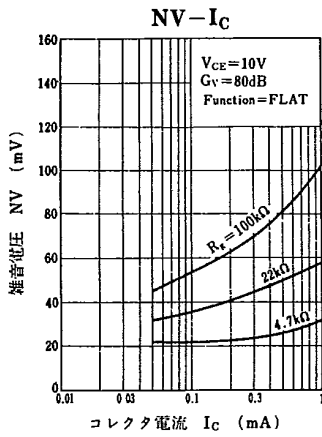
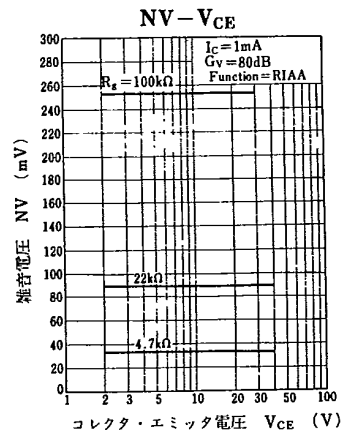
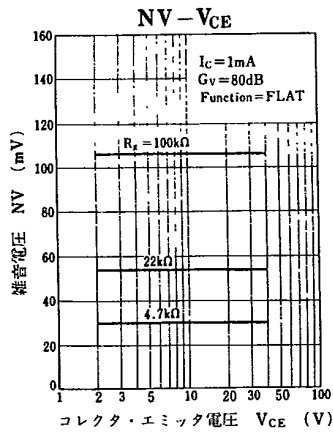
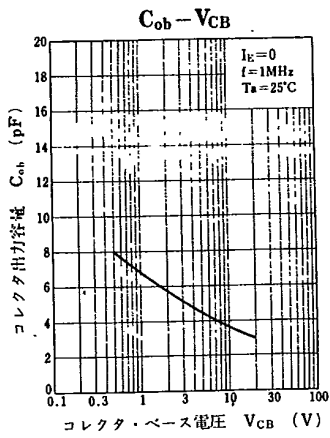
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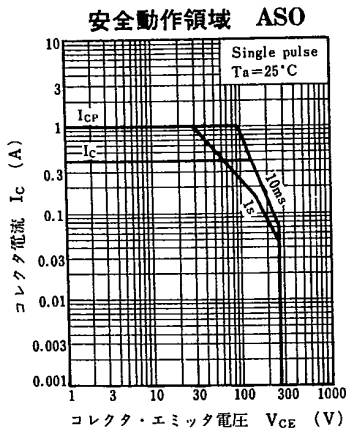
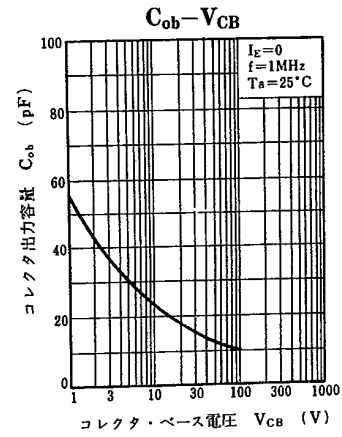
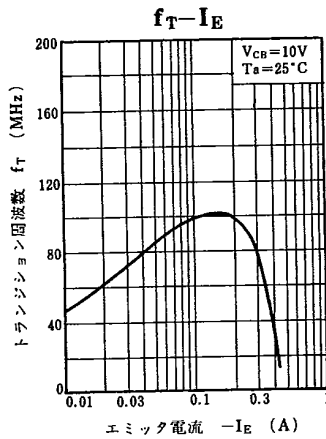
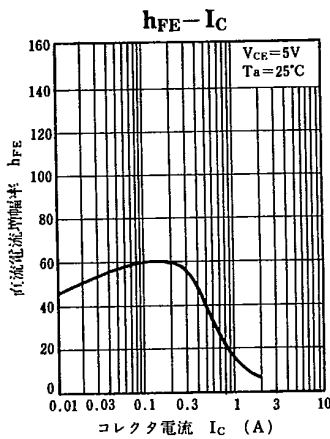
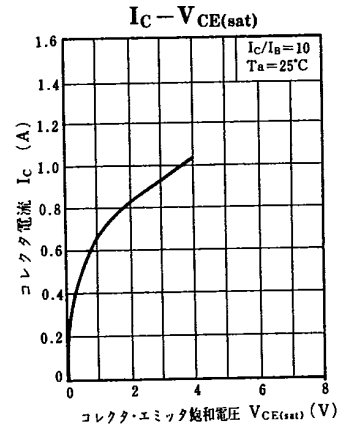
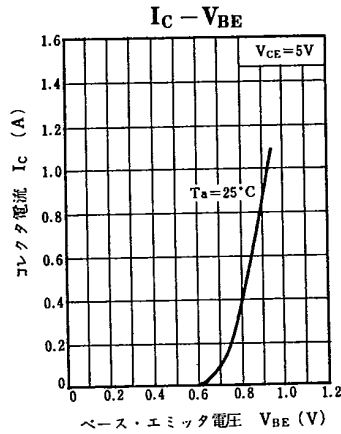
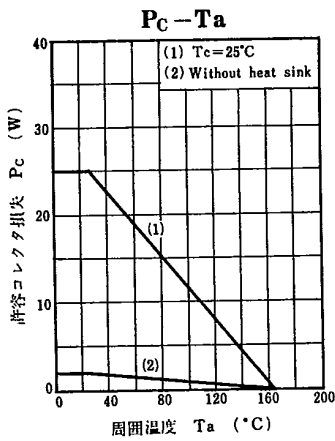
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T-33-09 2SC1929



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