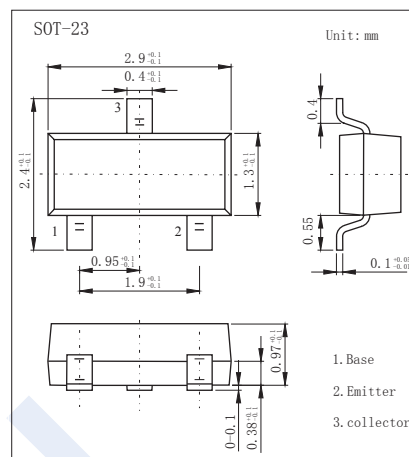


PNP Transistors

2SA1035

■ Features

- Low noise voltage NV.
- High forward current transfer ratio h_{FE} .
- Complementary to 2SC2406.

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CB0}	-55	V
Collector-emitter voltage	V_{CE0}	-55	V
Emitter-base voltage	V_{EB0}	-5	V
Collector current	I_C	-50	mA
Peak collector current	I_{CP}	-100	mA
Collector power dissipation	P_C	200	mW
Junction temperature	T_J	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_C = -100 \mu\text{A}$, $I_E = 0$	-55			V
Collector- emitter breakdown voltage	V_{CE0}	$I_C = -2 \text{ mA}$, $I_B = 0$	-55			
Emitter - base breakdown voltage	V_{EB0}	$I_E = -100 \mu\text{A}$, $I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -50 \text{ V}$, $I_E = 0$			-100	nA
Collector- emitter cut-off current	I_{CEO}	$V_{CE} = -40 \text{ V}$, $I_B = 0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5 \text{ V}$, $I_C = 0$			-100	nA
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100 \text{ mA}$, $I_B = -10 \text{ mA}$			-0.6	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100 \text{ mA}$, $I_B = -10 \text{ mA}$			-1.2	
Base - emitter voltage	V_{BE}	$V_{BE} = -1 \text{ V}$, $I_C = -100 \text{ mA}$			-1.0	
DC current gain	h_{FE}	$V_{CE} = -5 \text{ V}$, $I_C = -2 \text{ mA}$	180		700	
Noise voltage	NV	$V_{CE} = -10 \text{ V}$, $I_C = -1 \text{ mA}$, $G_v = 80 \text{ dB}$ $R_g = 100 \text{ k}\Omega$, Function = FLAT			150	mV
Transition frequency	f_T	$V_{CB} = -5 \text{ V}$, $I_E = -2 \text{ mA}$, $f = 200 \text{ MHz}$		200		MHz

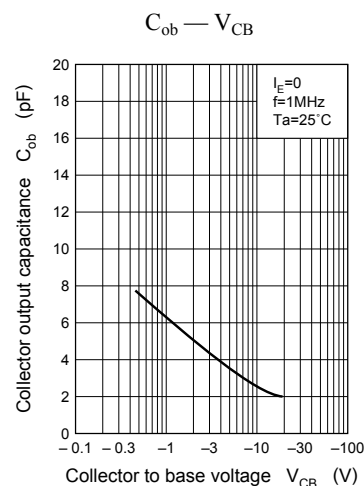
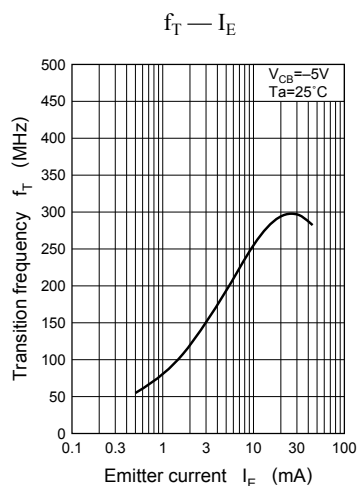
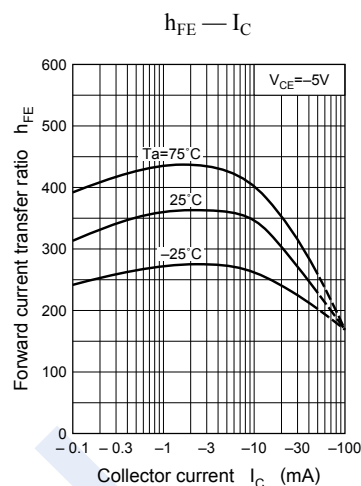
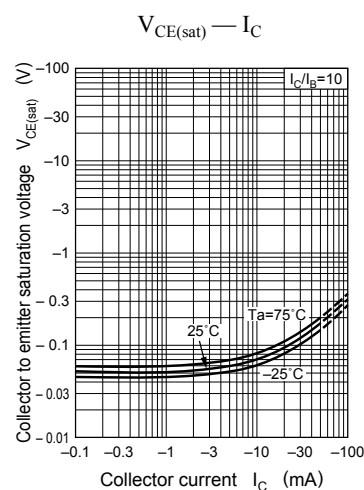
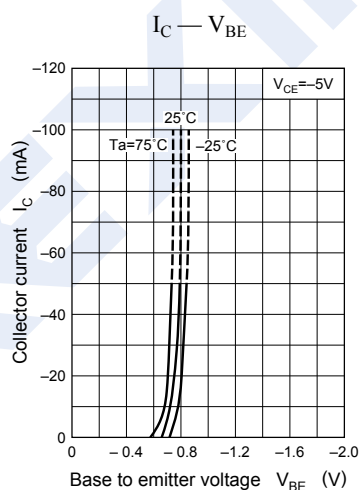
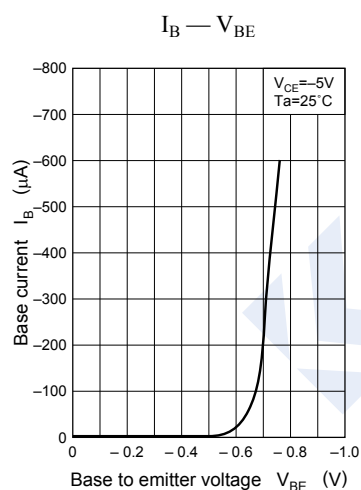
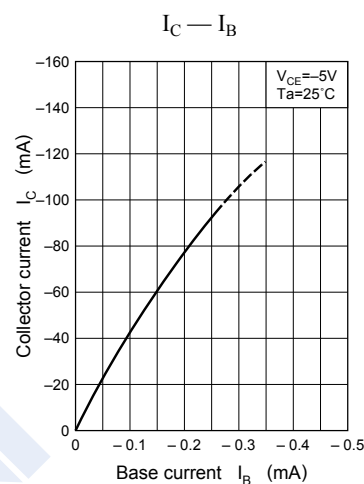
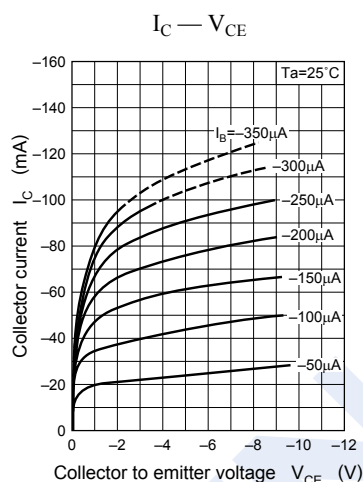
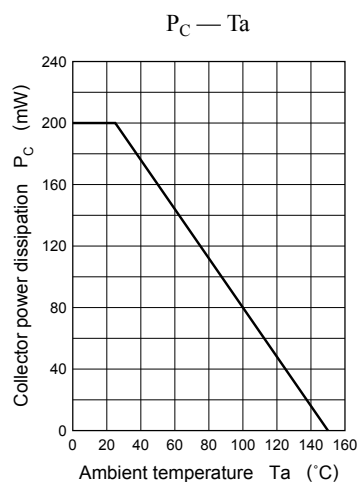
 h_{FE} Classification

Marking	HR	HS	HT
h_{FE}	180~360	260~520	360~700

PNP Transistors

2SA1035

■ Typical Characteristics



PNP Transistors

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■ Typical Characteristics

