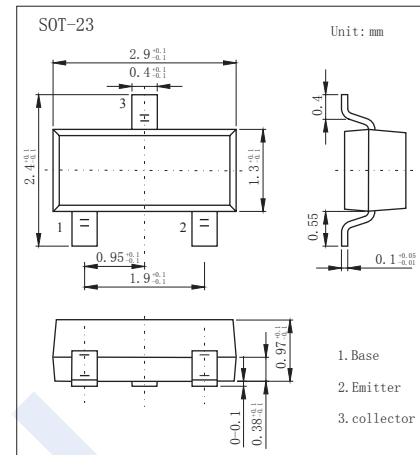


PNP Transistors

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_r	$V_{CB} = -5 \text{V}$, $I_E = -2 \text{mA}$, $f = 200 \text{MHz}$		200		MHz

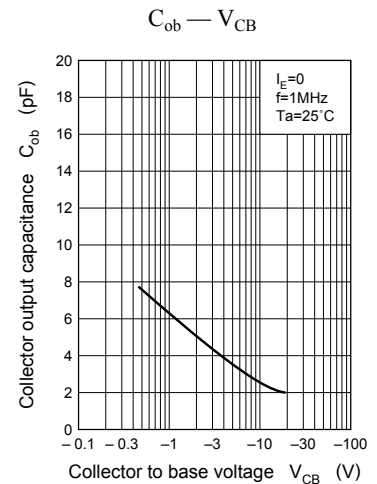
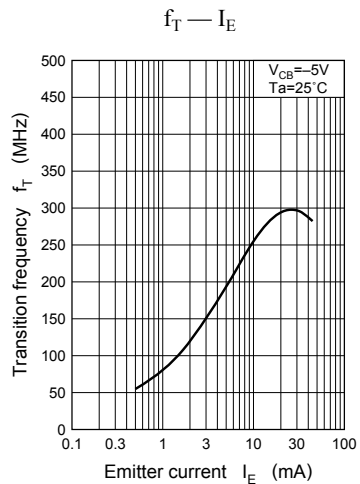
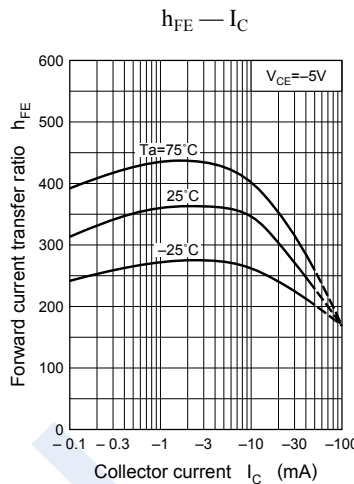
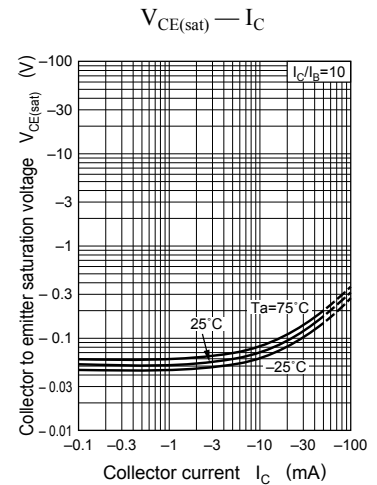
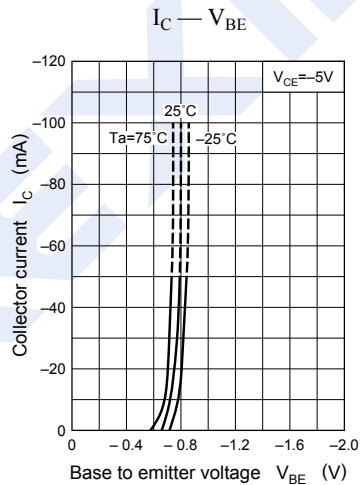
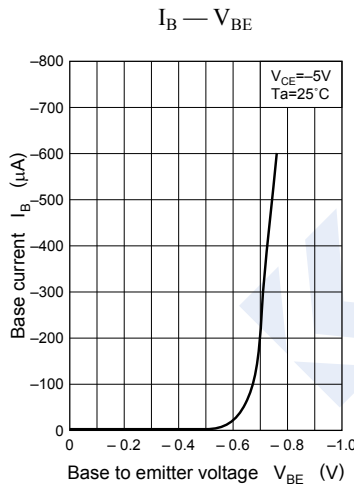
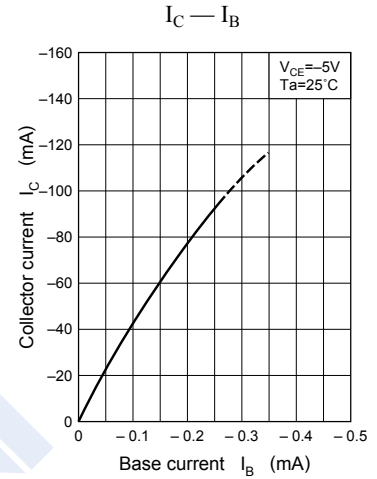
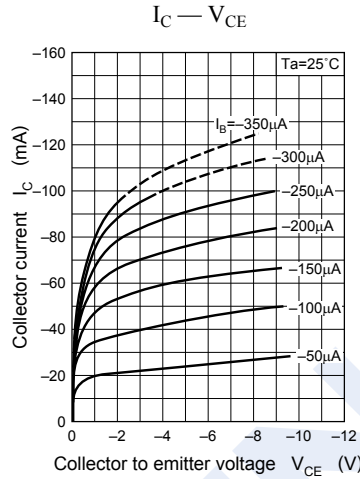
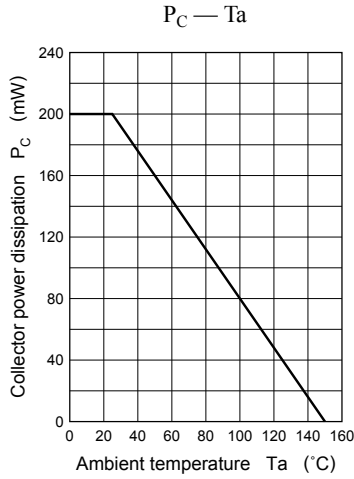
■ Classification of h_{FE}

Type	2SA1035-R	2SA1035-S	2SA1035-T
Range	180-360	260-520	360-700
Marking	HR	HS	HT

PNP Transistors

2SA1035

■ Typical Characteristics



PNP Transistors

2SA1035

■ Typical Characteristics

