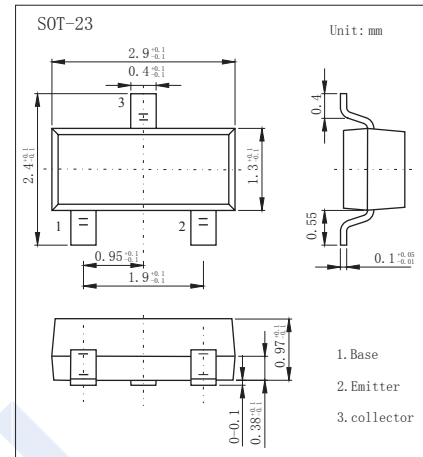


## PNP Transistors

## 2SA1034

## ■ Features

- Collector Current Capability  $I_C = -50\text{mA}$
- Collector Emitter Voltage  $V_{CE0} = -35\text{V}$
- Complementary to 2SC2405

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CB0}$	-35	V
Collector - Emitter Voltage	$V_{CE0}$	-35	
Emitter - Base Voltage	$V_{EB0}$	-5	
Collector Current - Continuous	$I_C$	-50	mA
Collector Current - Pulse	$I_{CP}$	-100	
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature range	$T_{stg}$	-55 to 150	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CB0}$	$I_C = -100\ \mu\text{A}$ , $I_E = 0$	-35			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_C = -2\ \text{mA}$ , $I_B = 0$	-35			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = -100\ \mu\text{A}$ , $I_C = 0$	-5			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = -35\ \text{V}$ , $I_E = 0$			-0.1	$\mu\text{A}$
Collector-emitter cut-off current	$I_{CEO}$	$V_{CE} = -10\ \text{V}$ , $I_B = 0$			-1	
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5\ \text{V}$ , $I_C = 0$			-0.1	
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	$V_{BE}$	$V_{CE} = -1\ \text{V}$ , $I_C = -100\ \text{mA}$			-1	
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	$f_T$	$V_{CB} = -5\ \text{V}$ , $I_E = 2\ \text{mA}$ , $f = 200\ \text{MHz}$	120			MHz

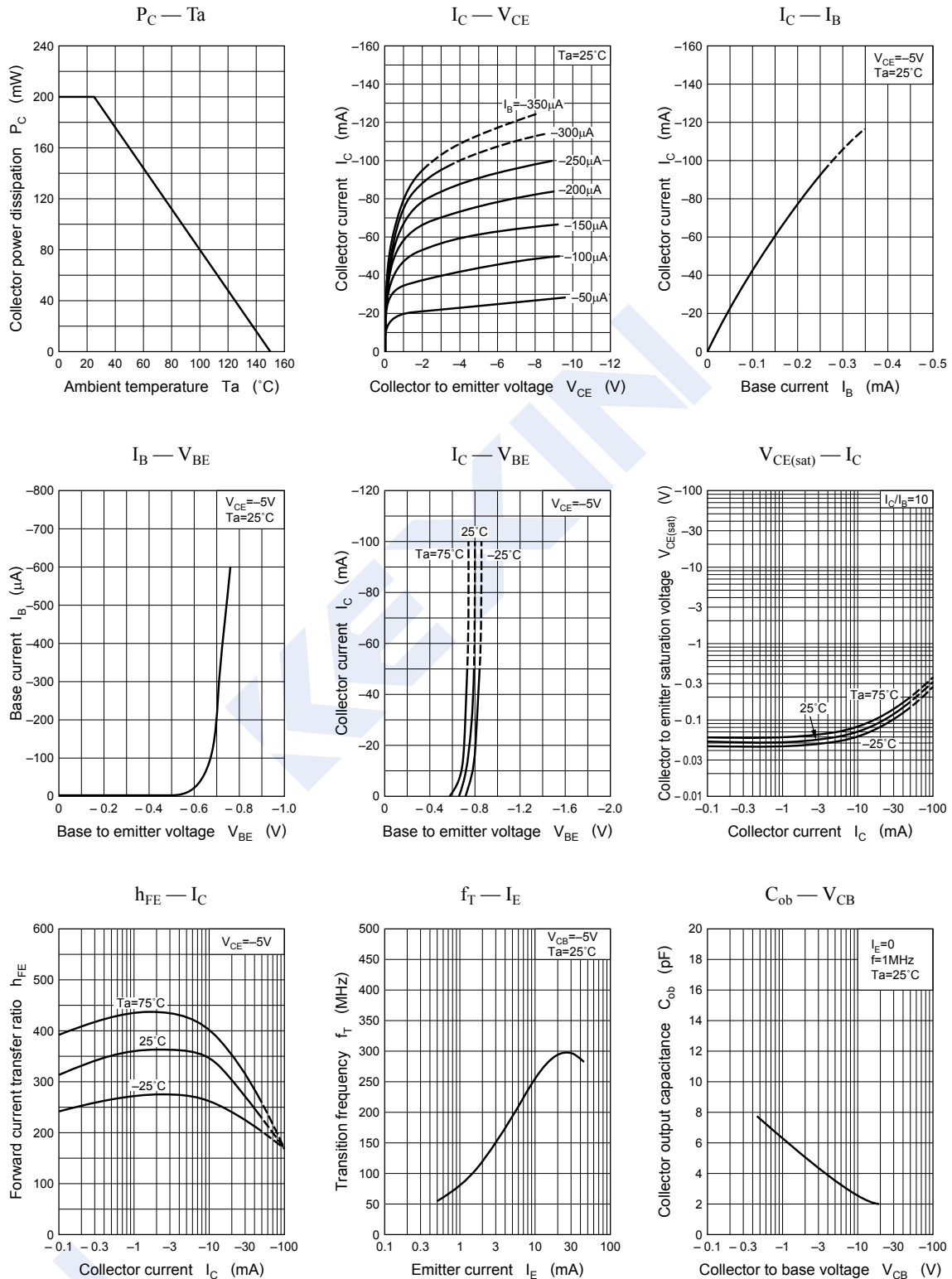
■ Classification of  $h_{FE}$ 

Type	2SA1034-R	2SA1034-S	2SA1034-T
Range	180-360	260-520	360-700
Marking	FR	FS	FT

# PNP Transistors

## 2SA1034

■ Typical Characteristics



# PNP Transistors

## 2SA1034

### Typical Characteristics

