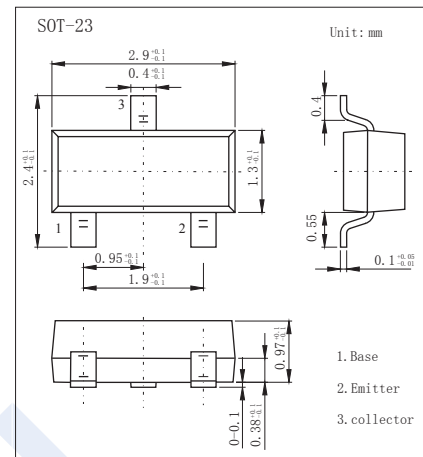


PNP Transistors

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_{CBO}	-35	V
Collector - Emitter Voltage	V_{CEO}	-35	
Emitter - Base Voltage	V_{EBO}	-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_{CBO}	$I_C = -100\ \mu\text{A}$, $I_E = 0$	-35			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -2\ \text{mA}$, $I_B = 0$	-35			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -100\ \mu\text{A}$, $I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -35\ \text{V}$, $I_E = 0$			-0.1	μA
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	fr	$V_{CB} = -5\ \text{V}$, $I_E = 2\ \text{mA}$, $f = 200\ \text{MHz}$	120			MHz

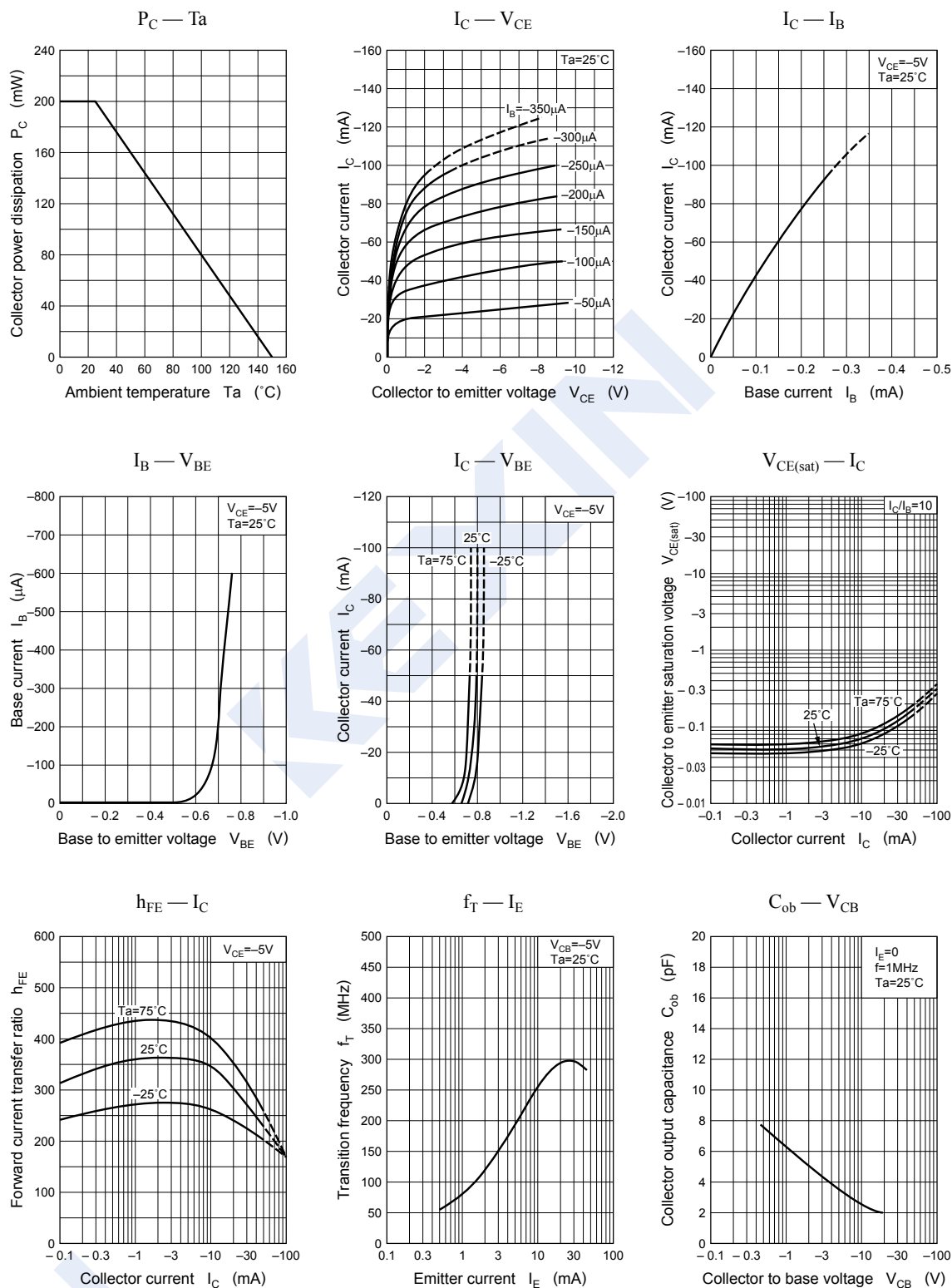
■ Classification of h_{FE}

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

