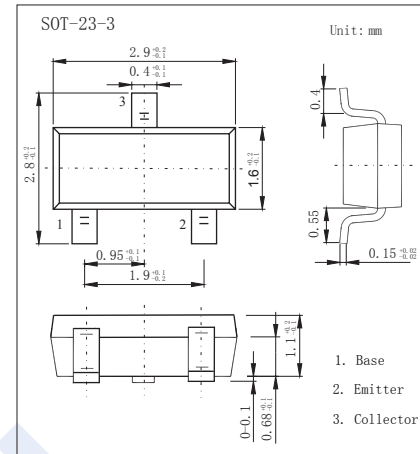


## PNP Transistors

### 2SA1468-HF

#### ■ Features

- High voltage amplifier
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CB0}$	-180	V
Collector - Emitter Voltage	$V_{CE0}$	-180	
Emitter - Base Voltage	$V_{EB0}$	-5	
Collector Current - Continuous	$I_C$	-100	mA
Collector Power Dissipation	$P_C$	150	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	$V_{CB0}$	$I_C = -100 \mu\text{A}$ , $I_E = 0$	-180			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_C = -0.5 \text{ mA}$ , $R_{BE} = \infty$	-180			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = -100 \mu\text{A}$ , $I_C = 0$	-5			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = -180 \text{ V}$ , $I_E = 0$			-0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5 \text{ V}$ , $I_C = 0$			-0.1	
Collector-emitter saturation voltage (Note.1)	$V_{CE(sat)}$	$I_C = -30 \text{ mA}$ , $I_B = -3 \text{ mA}$			-0.5	V
Base - emitter saturation voltage (Note.1)	$V_{BE(sat)}$	$I_C = -30 \text{ mA}$ , $I_B = -3 \text{ mA}$			-1.2	
Base - emitter voltage	$V_{BE}$	$V_{CE} = -12 \text{ V}$ , $I_C = -2 \text{ mA}$			-1	
DC current gain (Note1 and 2)	$h_{FE}$	$V_{CE} = -12 \text{ V}$ , $I_C = -2 \text{ mA}$	100		320	
Collector output capacitance	$C_{ob}$	$V_{CB} = -10 \text{ V}$ , $I_E = 0$ , $f = 1 \text{ MHz}$		3.5		pF
Transition frequency	$f_T$	$V_{CE} = -12 \text{ V}$ , $I_C = -10 \text{ mA}$		200		MHz

Note.1: Pulse test

Note.2: The 2SA1468-HF is grouped by  $h_{FE}$  as follows.

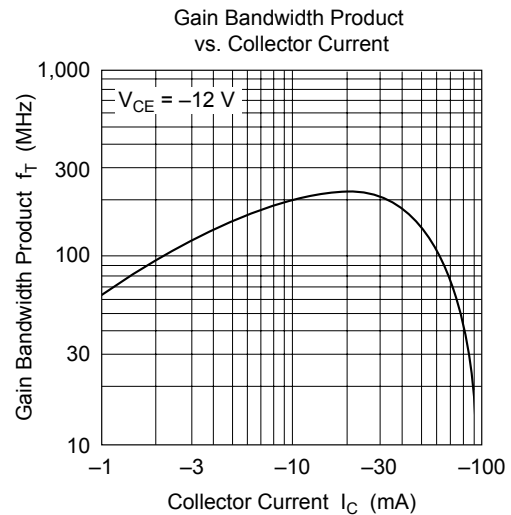
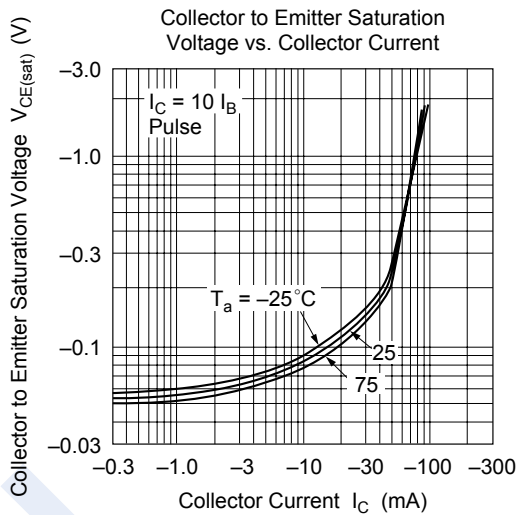
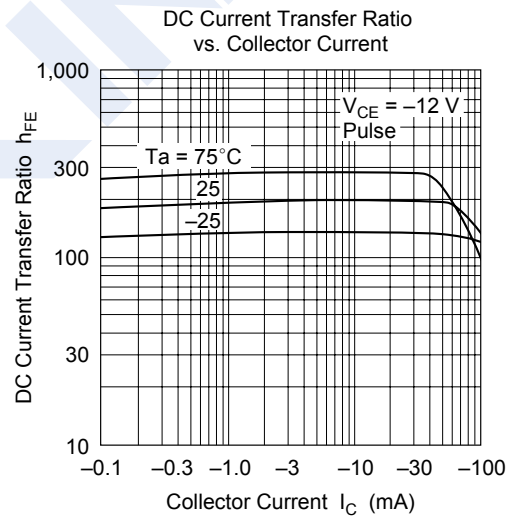
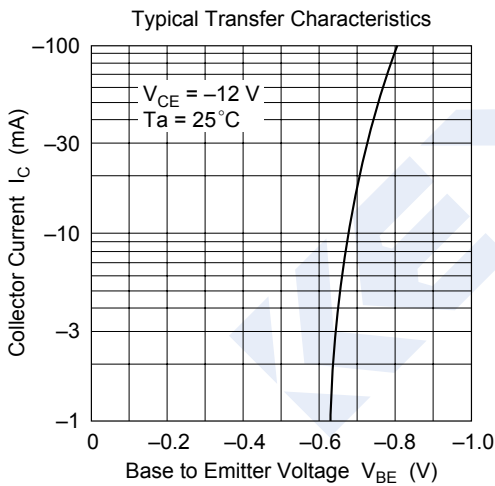
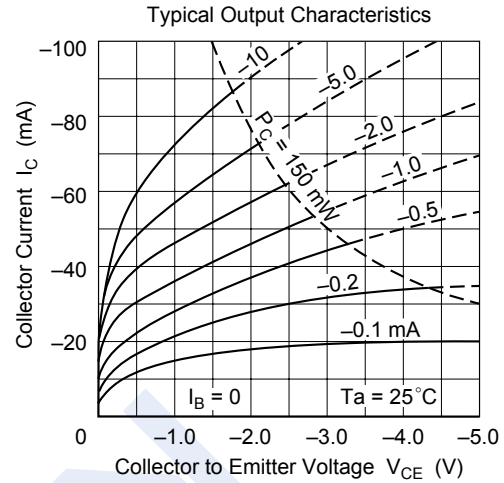
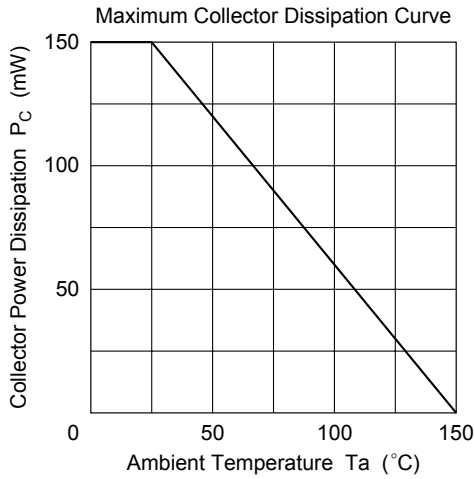
#### ■ Classification of $h_{FE}$

Type	2SA1468-B-HF	2SA1468-C-HF
Range	100-200	160-320
Marking	$INB_F$	$INC_F$

## PNP Transistors

### 2SA1468-HF

■ Typical Characteristics



## PNP Transistors

## 2SA1468-HF

## ■ Typical Characteristics

