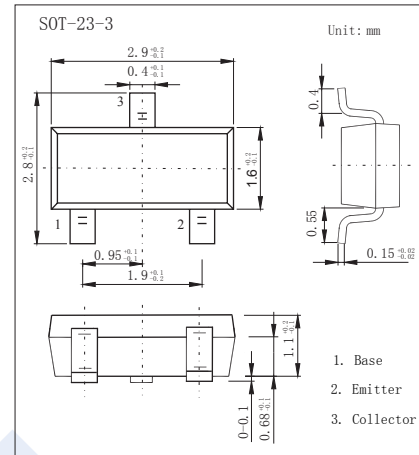


## NPN Transistors

### 2SC3134-HF

#### ■ Features

- High  $V_{EBO}$ .
- Wide ASO and high durability against breakdown.
- Complementary to 2SA1252-HF
- 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	$V_{CBO}$	60	V
Collector - Emitter Voltage	$V_{CEO}$	50	
Emitter - Base Voltage	$V_{EBO}$	15	
Collector Current - Continuous	$I_C$	150	mA
Collector Current - Pulse	$I_{CP}$	300	
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to 125	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CBO}$	$I_C = 100 \mu\text{A}$ , $I_E = 0$	60			V
Collector- emitter breakdown voltage	$V_{CEO}$	$I_C = 1 \text{ mA}$ , $I_B = 0$	50			
Emitter - base breakdown voltage	$V_{EBO}$	$I_E = 100 \mu\text{A}$ , $I_C = 0$	15			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = 40 \text{ V}$ , $I_E = 0$			0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 10 \text{ V}$ , $I_C = 0$			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 50 \text{ mA}$ , $I_B = 5 \text{ mA}$			0.5	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = 50 \text{ mA}$ , $I_B = 5 \text{ mA}$			1.2	
DC current gain	$h_{FE}$	$V_{CE} = 6 \text{ V}$ , $I_C = 1 \text{ mA}$	90		600	
Collector output capacitance	$C_{ob}$	$V_{CB} = 6 \text{ V}$ , $f = 1 \text{ MHz}$		2.2		pF
Transition frequency	$f_T$	$V_{CE} = 6 \text{ V}$ , $I_C = 1 \text{ mA}$		100		MHz

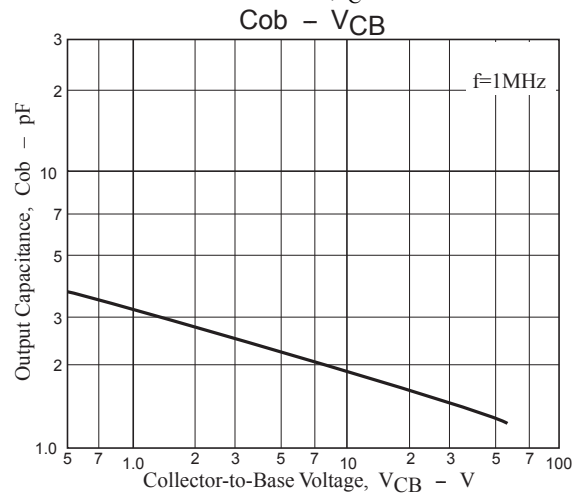
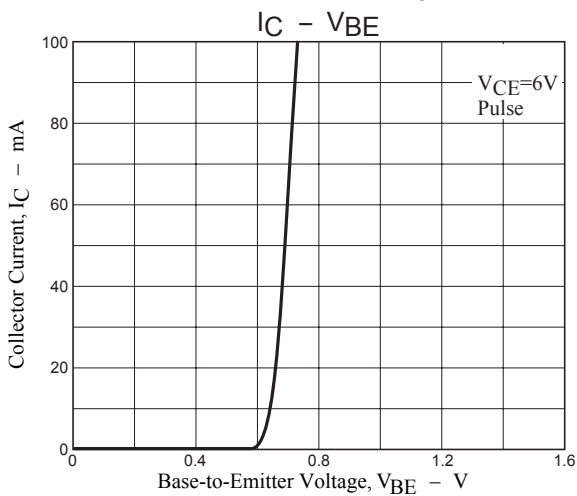
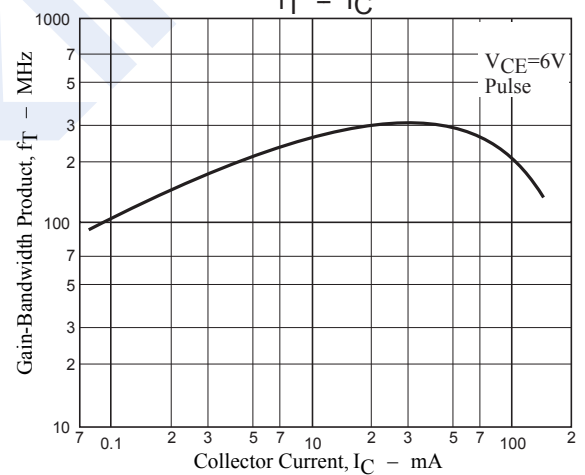
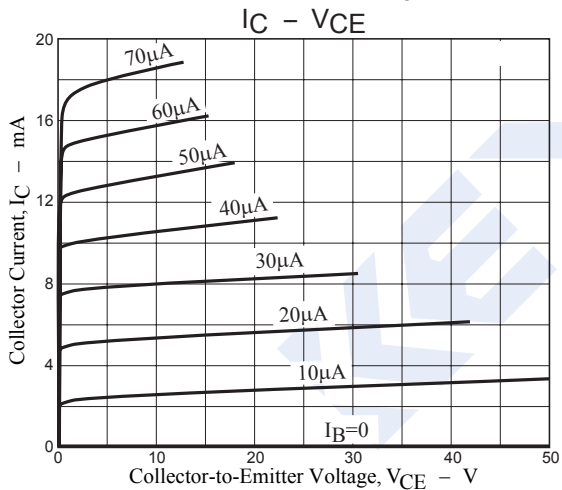
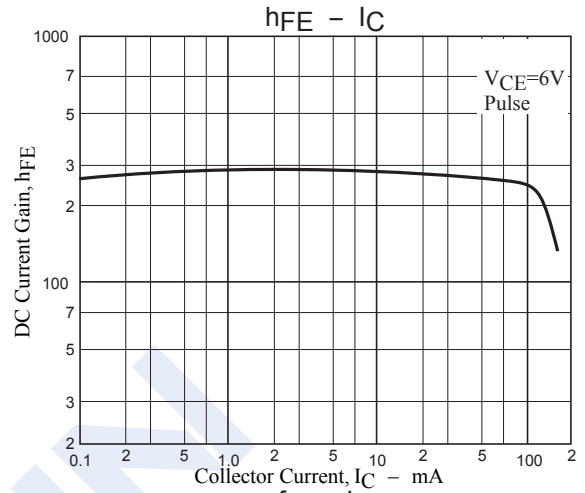
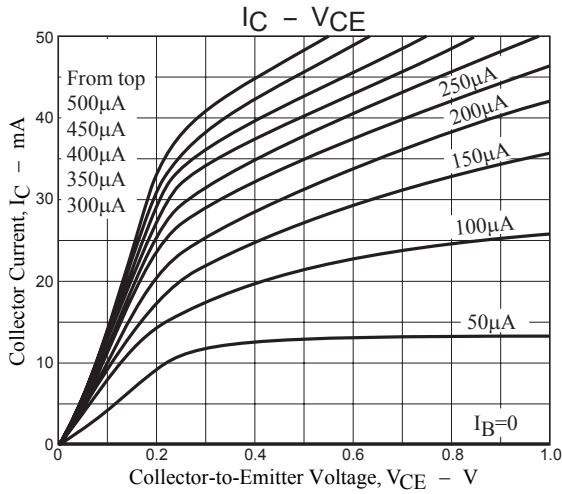
#### ■ Classification of $h_{fe}$

Type	2SC3134-H4-HF	2SC3134-H5-HF	2SC3134-H6-HF	2SC3134-H7-HF
Range	90-180	135-270	200-400	300-600
Marking	H4 <sub>F</sub>	H5 <sub>F</sub>	H6 <sub>F</sub>	H7 <sub>F</sub>

### NPN Transistors

### 2SC3134-HF

■ Typical Characteristics



## NPN Transistors

## 2SC3134-HF

## ■ Typical Characteristics

