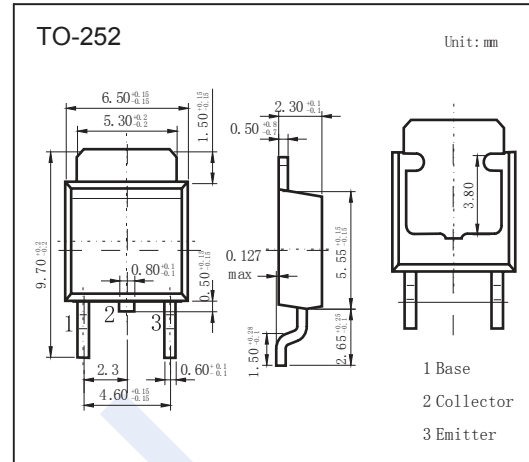


## PNP Transistors

## 2SB968

## ■ Features

- High collector to emitter  $V_{CE0}$
- Large collector power dissipation  $P_c$
- Complementary to 2SD1295

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CB0}$	-50	V
Collector - Emitter Voltage	$V_{CE0}$	-40	
Emitter - Base Voltage	$V_{EB0}$	-5	
Collector Current - Continuous	$I_c$	-1.5	A
Collector current -Pulse	$I_{cP}$	-3	
Collector Power Dissipation	$P_c$	20	W
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	$V_{CB0}$	$I_c = -1\text{mA}$ , $I_E = 0$	-50			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_c = -2\text{mA}$ , $I_B = 0$	-40			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = -1\text{mA}$ , $I_C = 0$	-5			
Collector-base cut-off current	$I_{CB0}$	$V_{CB} = -50\text{V}$ , $I_E = 0$			-1	$\mu\text{A}$
Collector-emitter cut-off current	$I_{CE0}$	$V_{CE} = -30\text{V}$ , $I_B = 0$			-100	
Emitter cut-off current	$I_{EB0}$	$V_{EB} = -5\text{V}$ , $I_C = 0$			-10	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -1.5\text{A}$ , $I_B = -150\text{mA}$			-1	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -2\text{A}$ , $I_B = -200\text{mA}$			-1.5	
DC current gain	$h_{FE}$	$V_{CE} = -5\text{V}$ , $I_c = -1\text{A}$	50		220	
Collector output capacitance	$C_{ob}$	$V_{CB} = -20\text{V}$ , $I_E = 0$ , $f = 1\text{MHz}$		45		$\text{pF}$
Transition frequency	$f_T$	$V_{CE} = -5\text{V}$ , $I_c = -500\text{mA}$ , $f = 200\text{MHz}$		150		$\text{MHz}$

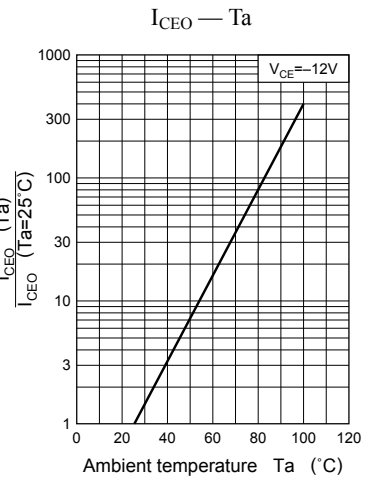
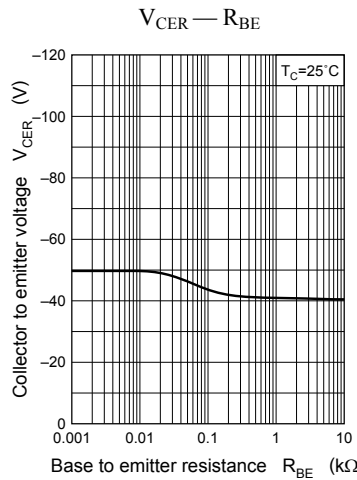
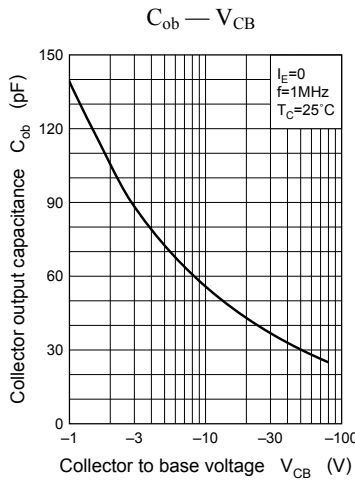
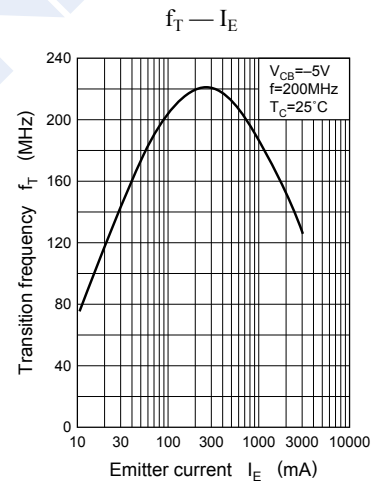
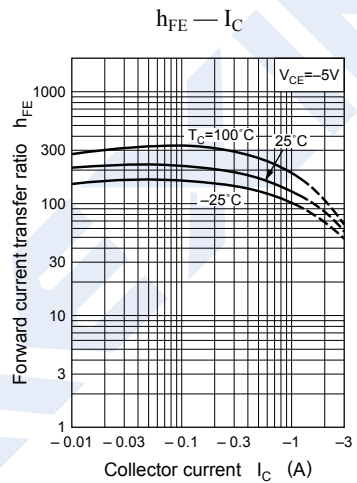
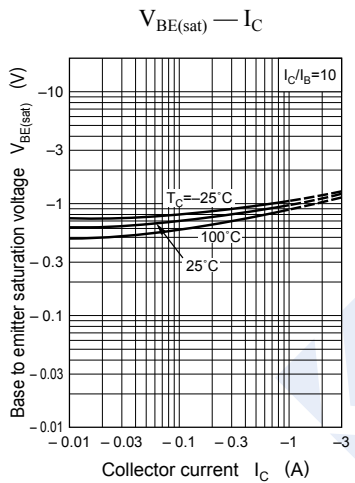
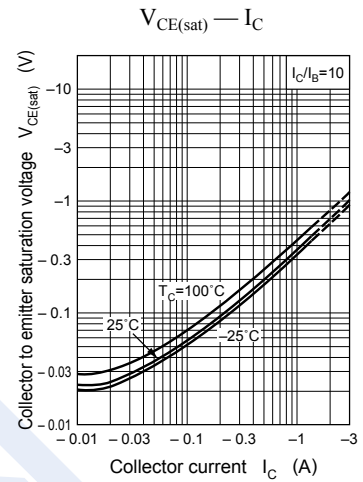
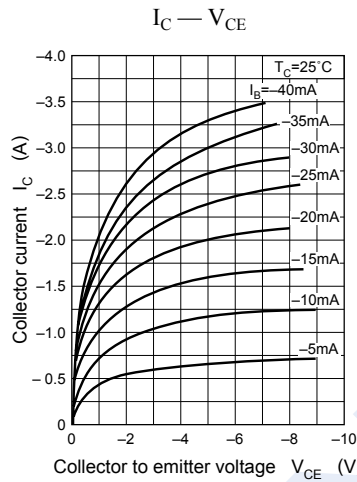
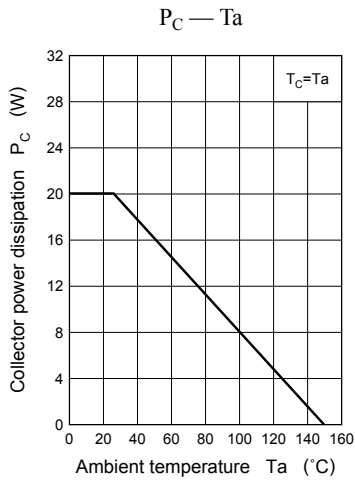
■ Classification of  $h_{fe}$ 

Type	2SB968-P	2SB968-Q	2SB968-R
Range	50-100	80-160	120-220

# PNP Transistors

## 2SB968

■ Typical Characteristics



## PNP Transistors

### 2SB968

#### ■ Typical Characteristics

