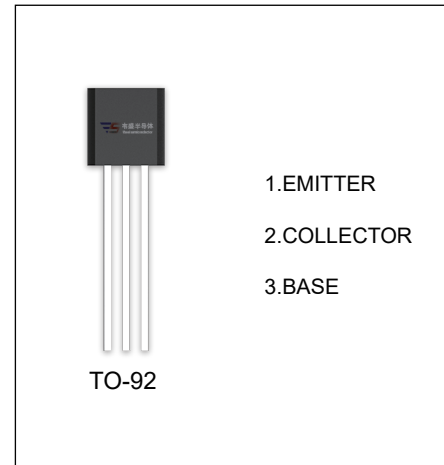


## 2SB562 TRANSISTOR (PNP)

### FEATURES

- Low frequency power amplifier
- Complementary pair with 2SD468



### ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SB562	TO-92	Bulk	1000pcs/Bag
2SB562-TA	TO-92	Tape	2000pcs/Box

### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector-Base Voltage	-25	V
V <sub>CE0</sub>	Collector-Emitter Voltage	-20	V
V <sub>EB0</sub>	Emitter-Base Voltage	-5	V
I <sub>C</sub>	Collector Current -Continuous	-1	A
P <sub>D</sub>	Collector Power Dissipation	625	mW
R <sub>θJA</sub>	Thermal Resistance from Junction to Ambient	200	°C /W
T <sub>J</sub> , T <sub>stg</sub>	Junction Temperature	-55~+150	°C

$T_a=25\text{ }^\circ\text{C}$  unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-10\mu\text{A}, I_E=0$	-25			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-10\mu\text{A}, I_C=0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-20\text{V}, I_E=0$			-1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-4\text{V}, I_C=0$			-1	$\mu\text{A}$
DC current gain	$h_{FE}$	$V_{CE}=-2\text{V}, I_C=-0.5\text{A}$	85		240	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-0.8\text{A}, I_B=-0.08\text{A}$			-0.5	V
Base-emitter voltage	$V_{BE}$	$V_{CE}=-2\text{V}, I_C=-0.5\text{A}$			-1	V
Transition frequency	$f_T$	$V_{CE}=-2\text{V}, I_C=-0.5\text{A}$		350		MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$		38		pF

#### CLASSIFICATION OF $h_{FE}$

Rank	B	C
Range	85-170	120-240

