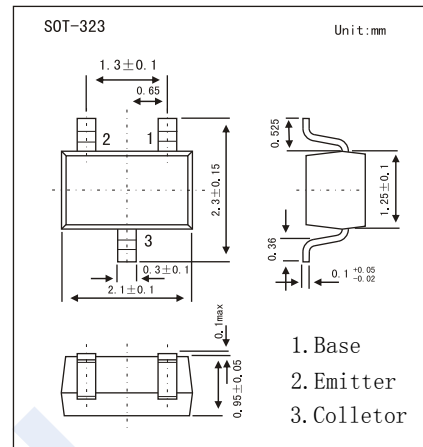


## PNP Transistors

### 2SA1532

#### ■ Features

- High transition frequency fr.
- Complementary to 2SC3930



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V <sub>CB0</sub>	-30	V
Collector - Emitter Voltage	V <sub>CE0</sub>	-20	
Emitter - Base Voltage	V <sub>EB0</sub>	-5	
Collector Current - Continuous	I <sub>c</sub>	-30	mA
Collector Power Dissipation	P <sub>c</sub>	150	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature range	T <sub>stg</sub>	-55 to 150	

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V <sub>CB0</sub>	I <sub>c</sub> = -100 μA, I <sub>E</sub> =0	-30			V
Collector- emitter breakdown voltage	V <sub>CE0</sub>	I <sub>c</sub> = -1 mA, I <sub>B</sub> = 0	-20			
Emitter - base breakdown voltage	V <sub>EB0</sub>	I <sub>E</sub> = -100 μA, I <sub>c</sub> =0	-5			
Collector-base cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> = -30 V, I <sub>E</sub> =0			-0.1	μA
Collector-Emitter cut-off current	I <sub>CE0</sub>	V <sub>CE</sub> = -20 V, I <sub>B</sub> =0			-100	
Emitter cut-off current	I <sub>EB0</sub>	V <sub>EB</sub> = -5V, I <sub>c</sub> =0			-0.1	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> =-10 mA, I <sub>B</sub> =-1 mA		-0.1		V
Base - emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>c</sub> =-10 mA, I <sub>B</sub> =-1 mA			-1.2	
Base - emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> = -10V, I <sub>c</sub> = -1mA		-0.7		
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = -10V, I <sub>c</sub> = -1mA	70		220	
Noise Figure	NF	V <sub>CB</sub> = -10V, I <sub>E</sub> = 1mA, f = 5MHz		2.8	4	dB
Reverse transfer impedance	Z <sub>rb</sub>	V <sub>CB</sub> = -10V, I <sub>E</sub> = 1mA, f = 2MHz		22	60	Ω
Common emitter reverse transfer capacitance	C <sub>re</sub>	V <sub>CE</sub> = -10V, I <sub>c</sub> = -1mA f = 10.7MHz		1.2	2	pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = -10V, I <sub>E</sub> = 1mA, f=200MHz	150	300		MHz

#### ■ Classification of h<sub>FE</sub>

Type	2SA1532-B	2SA1532-C
Range	70-140	110-220
Marking	EB	EC

# PNP Transistors

## 2SA1532

### Typical Characteristics

