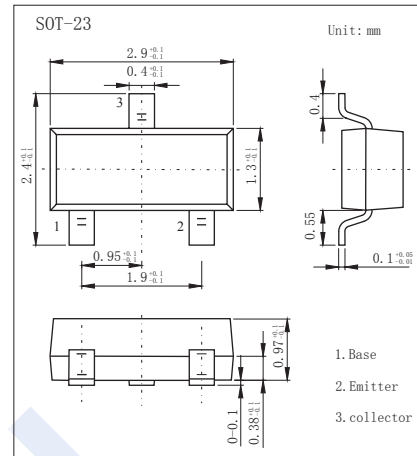


## PNP Transistors

### 2SA1182

#### ■ Features

- Collector Current Capability  $I_C = -0.5A$
- Collector Emitter Voltage  $V_{CE0} = -32V$
- Complementary to 2SC2859.



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CB0}$	-40	V
Collector - Emitter Voltage	$V_{CE0}$	-32	
Emitter - Base Voltage	$V_{EB0}$	-5	
Collector Current - Continuous	$I_C$	-500	mA
Base Current - Continuous	$I_B$	-50	
Collector Power Dissipation	$P_C$	150	mW
Junction Temperature	$T_J$	125	$^\circ C$
Storage Temperature range	$T_{stg}$	-55 to 125	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CB0}$	$I_C = -100 \mu A, I_E = 0$	-40			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_C = -1 mA, I_B = 0$	-32			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = -100 \mu A, I_C = 0$	-5			
Collector-base cut-off current	$I_{CB0}$	$V_{CB} = -40 V, I_E = 0$			-0.1	uA
Emitter cut-off current	$I_{EB0}$	$V_{EB} = -5V, I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100 mA, I_B = -10mA$		-0.1	-0.25	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100 mA, I_B = -10mA$			-1.2	
Base-emitter voltage	$V_{BE}$	$V_{CE} = -1V, I_C = -100 mA$		-0.8	-1	
DC current gain	$h_{FE(1)}$	$V_{CE} = -1V, I_C = -100mA$	70		400	
	$h_{FE(2)}$	$V_{CE} = -6V, I_C = -400mA$ *1	25			
Collector output capacitance	$C_{ob}$	$V_{CB} = -6V, I_E = 0, f = 1MHz$		13		pF
Transition frequency	$f_T$	$V_{CE} = -6V, I_C = -20mA$		200		MHz

\*1:  $h_{FE(2)}$  classification O: 25 (min), Y: 40 (min), GR: 70 (min)

#### ■ Classification of $h_{FE(1)}$

Type	2SA1182-O	2SA1182-Y	2SA1182-G
Range	70-140	120-240	200-400
Marking	ZO	ZY	ZG

# PNP Transistors

## 2SA1182

■ Typical Characteristics

