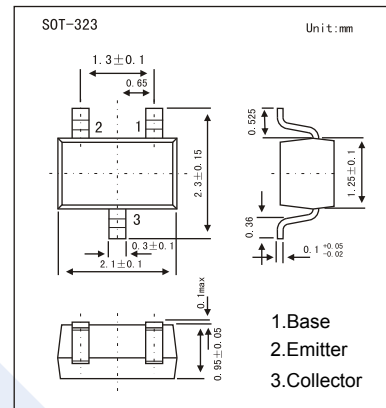


PNP Transistors

2SA1577

■ Features

- Large I_C . $C_{Max.} = -500mA$
- Low $V_{CE(sat)}$. Ideal for low-voltage operation.
- Complements the 2SC4097.

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-40	V
Collector - Emitter Voltage	V_{CEO}	-32	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-500	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature range	T_{stg}	-55 to 150	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = -100 \mu A, I_E = 0$	-40			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -1 mA, I_B = 0$	-32			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -100 \mu A, I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -20 V, I_E = 0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -4 V, I_C = 0$			-1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100 mA, I_B = -10 mA$			-0.4	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100 mA, I_B = -10 mA$			-1.2	
DC current gain	h_{FE}	$V_{CE} = -3 V, I_C = -10 mA$	82		390	
Collector output capacitance	C_{ob}	$V_{CB} = -10 V, I_E = 0, f = 1 MHz$		7		pF
Transition frequency	f_T	$V_{CE} = -5 V, I_C = -20 mA, f = 100 MHz$		200		MHz

■ Classification of h_{FE}

Type	2SA1577-P	2SA1577-Q	2SA1577-R
Range	82-180	120-270	180-390
Marking	HP	HQ	HR

PNP Transistors

2SA1577

■ Typical Characteristics

