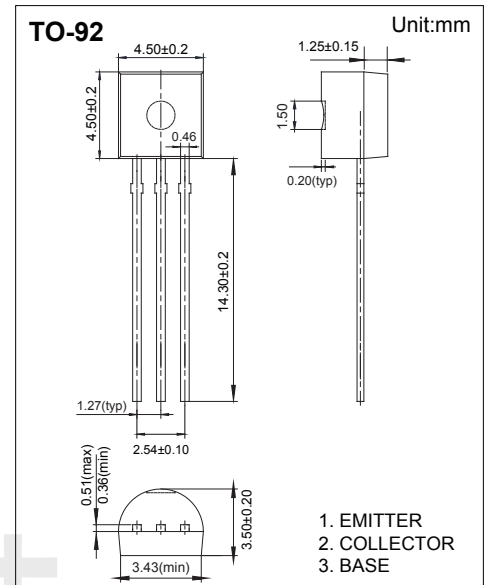


PNP Transistors 2SA1300

■ Features

- Low Saturation Voltage
- High DC Current Gain and Excellent hFE Linearity



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	-20	V
Collector - Emitter Voltage	V _{CE0}	-10	
Emitter - Base Voltage	V _{EB0}	-6	
Collector Current - Continuous	I _c	-2	A
Collector Power Dissipation	P _c	0.75	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collecto- base breakdown voltage	V _{CB0}	I _c = -1 mA, I _E =0	-20			V
Collector- emitter breakdown voltage	V _{CE0}	I _c = -10 mA, I _B =0	-10			
Emitter - base breakdown voltage	V _{EB0}	I _E = -1 mA, I _c =0	-6			
Collector cut-off current	I _{CB0}	V _{CB} = -20 V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EB0}	V _{EB} = -6V, I _c =0			-0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =2A, I _B = -100mA			-0.82	V
Base - emitter saturation voltage	V _{BE(sat)}	I _c =2A, I _B = -100mA			-1.2	
Base-emitter voltage	V _{BE}	V _{CE} = -1V, I _c = -2A			-1.5	
DC current gain	h _{FE}	V _{CE} = -1V, I _c = -0.5A	140		600	
Collector Output Capacitance	C _{ob}	V _{CB} = -10V, I _E =0, f=1MHZ		50		pF
Transition frequency	f _T	V _{CE} = -1V, I _c = -0.5A, f=30MHZ		140		MHZ

■ Classification of hFE

Rank	Y	GR	BL
Range	140-280	200-400	300-600