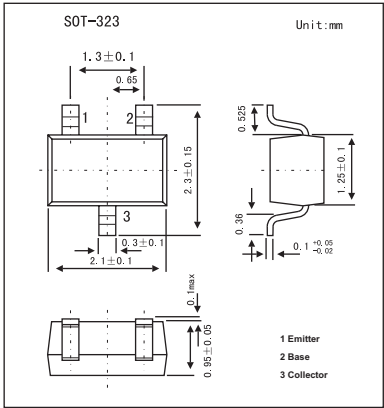


2SA1586

■ Features

- High voltage and high current.
- Excellent hFE linearity.
- High hFE.
- Low noise.
- Small package.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	-50	V
Collector-emitter voltage	V _{CEO}	-50	V
Emitter-base voltage	V _{EB0}	-5	V
Collector current	I _c	-150	mA
Base current	I _b	-30	mA
Collector power dissipation	P _c	100	mW
Junction temperature	T _j	125	°C
Storage temperature range	T _{stg}	-55 to +125	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector cut-off current	I _{CB0}	V _{CB} =-50V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EB0}	V _{EB} =-5V, I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-6V, I _C =-2mA	70		400	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-10mA		-0.1	-0.3	V
Transition frequency	f _T	V _{CE} =-10V, I _C =-1mA	80			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz		4	7	pF
Noise figure	NF	V _{CE} =-6V, I _C =-0.1mA, f=1kHz, R _g =10kΩ		1.0	10	dB

■ hFE Classification

Marking	SO	SY	SG
hFE	70~140	120~240	200~400