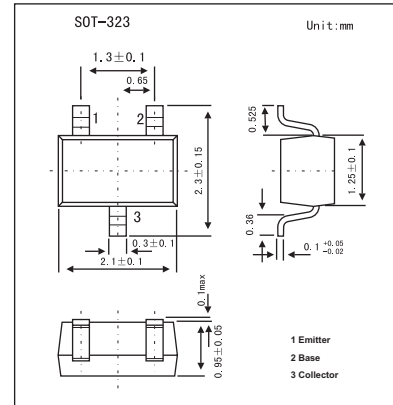


2SC4102

■ Features

- High breakdown voltage.(V_{CEO} = 120V)



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	120	V
Collector-emitter voltage	V _{CEO}	120	V
Emitter-base voltage	V _{EB0}	5	V
Collector current	I _C	50	mA
Collector power dissipation	P _C	0.2	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CB0}	I _C =50μA	120			V
Collector-emitter breakdown voltage	V _{CEO}	I _C =1mA	120			V
Emitter-base breakdown voltage	V _{EB0}	I _E =50μA	5			V
Collector cutoff current	I _{CB0}	V _{CB} =100V			0.5	μA
Emitter cutoff current	I _{EB0}	V _{EB} =4V			0.5	μA
DC current transfer ratio	h _{FE}	V _{CE} =6V, I _C =2mA	180		560	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10mA, I _B =1mA			0.5	V
Output capacitance	C _{ob}	V _{CB} =12V, I _E =0A, f=1MHz		2.5		pF
Transition frequency	f _T	V _{CE} =-12V, I _E =2mA, f=100MHz		140		MHz

■ hFE Classification

Marking	TR	TS
Rank	R	S
hFE	180~390	270~560