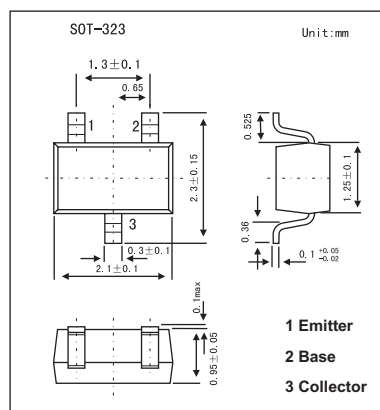


2SA1612

■ Features

- High DC current gain



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector to base voltage	V _{CB0}	-120	V
Collector to emitter voltage	V _{CEO}	-120	V
Emitter to base voltage	V _{EBO}	-5	V
Collector current (DC)	I _c	-50	mA
Total power dissipation	P _T	150	mW
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	I _{cBO}	V _{CB} = -120V, I _E =0			-50	nA
Emitter cutoff current	I _{EBO}	V _{EB} = -5V, I _c =0			-50	nA
DC current gain	h _{FE}	V _{CE} = -6V, I _c = -1mA	135	500	900	
		V _{CE} = -6V, I _c = -0.1mA *	100	500		
Collector-emitter saturation voltage *	V _{CE(sat)}	I _c = -10mA, I _B = -1mA		-0.09	-0.3	V
Base-emitter voltage	V _{BE}	V _{CE} = -6V, I _c = -1mA	-0.55	-0.61	-0.65	V
Gain bandwidth product	f _T	V _{CE} = -6V, I _E = -1mA	50	90		MHz
Output capacitance	C _{ob}	V _{CB} = -30V, I _E = 0, f = 1.0MHz		2	3	pF

*. PW ≤ 350μs, duty cycle ≤ 2%

■ hFE Classification

Marking	C15	C16	C17	C18
hFE	135~270	200~400	300~600	450~900