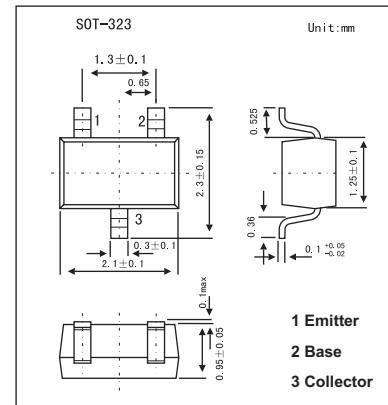


2SD1824

■ Features

- High forward current transfer ratio hFE
- Low collector-emitter saturation voltage V_{CE(sat)}
- High emitter-base voltage V_{EBO}



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	100	V
Collector-emitter voltage	V _{CEO}	100	V
Emitter-base voltage	V _{EBO}	15	V
Peak collector current	I _{CP}	50	mA
Collector current	I _C	20	mA
Collector power dissipation	P _C	150	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base voltage	V _{CBO}	I _C = 10 μA, I _E = 0	100			V
Collector-emitter voltage	V _{CEO}	I _C = 1 mA, I _B = 0	100			V
Emitter-base voltage	V _{EBO}	I _E = 10 μA, I _C = 0	15			V
Collector-base cutoff current	I _{CBO}	V _{CB} = 60 V, I _E = 0			0.1	μA
Collector-emitter cutoff current	I _{CEO}	V _{CE} = 60 V, I _B = 0			1	μA
Forward current transfer ratio	h _{FE}	V _{CE} = 10 V, I _C = 2 mA	400		1200	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 10 mA, I _B = 1 mA		0.05	0.2	V
Transition frequency	f _T	V _{CB} = 10 V, I _E = -2 mA, f = 200 MHz		90		MHz

■ hFE Classification

Marking	1V	
Rank	R	S
h _{FE}	400~800	600~1200