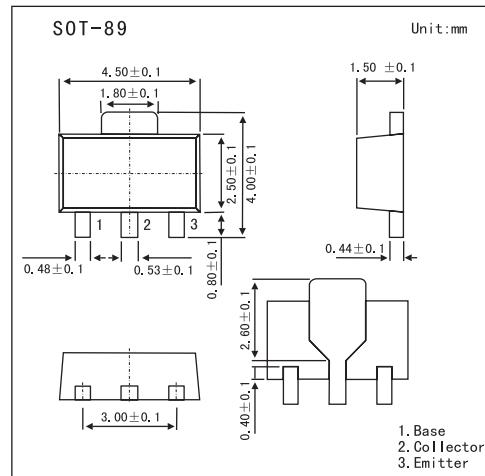


2SB1115

■ Features

- World standard miniature package.
- Low V_{CE(sat)}: V_{CE(sat)}=-0.2V at 1A



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector to base voltage	V _{CB0}	-60	V
Collector to emitter voltage	V _{C0E}	-50	V
Emitter to base voltage	V _{E0B}	-6	V
Collector current	I _C	-1	A
Collector current (pulse) *	I _C	-2	A
Total power dissipation	P _T	2	W
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-55 to +150	°C

* Pulsed: PW ≤ 10 ms, duty cycle ≤ 50%

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	I _{CBO}	V _{CB} = -60 V, I _E = 0			-100	nA
Emitter cutoff current	I _{EBO}	V _{EB} = -6.0 V, I _C = 0			-100	nA
DC current gain *	h _{FE}	V _{CE} = -2.0 V, I _C = -100 mA	135	340	600	
		V _{CE} = -2.0 V, I _C = -1.0A	100	200		
Collector saturation voltage *	V _{CE(sat)}	I _C = -1.0A, I _B = -50 mA		-0.2	-0.3	V
Base saturation voltage *	V _{BE(sat)}	I _C = -1.0A, I _B = -50 mA		-0.9	-1.2	V
Base-emitter voltage *	V _{BE}	V _{CE} = -2.0 V, I _C = -50 mA	-600		-700	V
Gain bandwidth product	f _T	V _{CE} = -2.0 V, I _E = -100 mA	80	120		MHz
Output capacitance	C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1.0 MHz		25		pF

* Pulsed: PW ≤ 350 μs, duty cycle ≤ 2%

■ hFE Classification

Marking	YM	YL	YK
h _{FE}	135~270	200~400	300~600