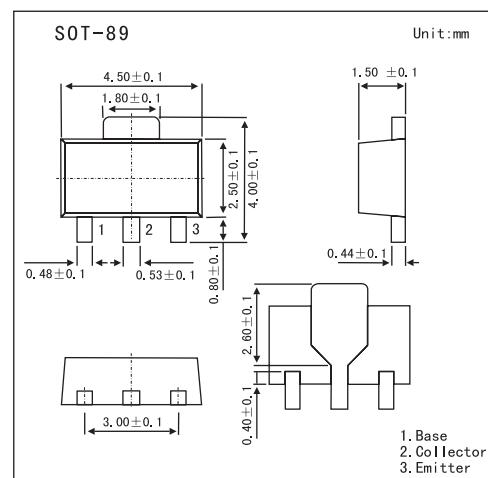


2SB1189

■ Features

- High breakdown voltage, BVCEO=-80V, and high current, IC=-0.7A.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base Voltage	V _{CBO}	-80	V
Collector-emitter Voltage	V _{CEO}	-80	V
Emitter-base Voltage	V _{EBO}	-5	V
Collector current	I _C	-0.7	A
Collector power dissipation	P _C	0.5	W
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 breakdown voltage	BV _{CBO}	I _C = -50 μA	-80			V
Collector-emitter breakdown voltage	BV _{CEO}	I _C = -2mA	-80			V
Emitter-base breakdown voltage	BV _{EBO}	I _E = -50 μA	-5			V
Collector cutoff current	I _{CBO}	V _{CB} = -50V			-0.5	μA
Emitter cutoff current	I _{EBO}	V _{EB} = -4V			-0.5	μA
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = -500mA , I _B = -50mA		-0.2	-0.4	V
DC current transfer ratio	h _{FE}	V _{CE} = -3V , I _C = -0.1A	82		390	
Transition frequency	f _T	V _{CE} = -10V , I _E = 50mA , f = 100MHz		100		MHz
Output Capacitance	C _{ob}	V _{CB} = -10V , I _E = 0, f = 1MHz		14	20	pF

■ hFE Classification

Marking	BD		
	P	Q	R
hFE	82~180	120~270	180~390