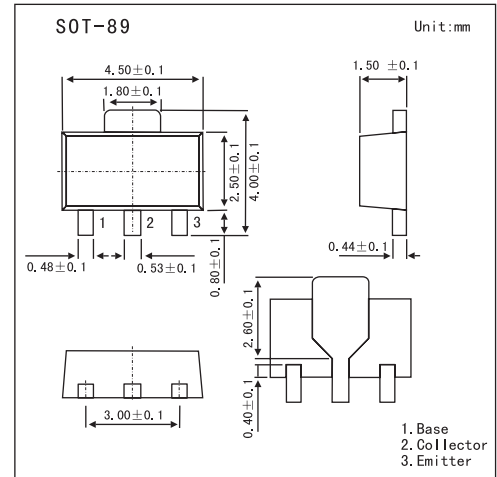


2SB1118

■ Features

- Low collector-to-emitter saturation voltage.
- Very small size making it easy to provide highdensity,



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	-20	V
Collector-emitter voltage	V _{CE0}	-15	V
Emitter-base voltage	V _{EB0}	-5	V
Collector current	I _C	-0.7	A
Collector current (pulse)	I _{CP}	-1.5	A
Collector dissipation	P _C	500	mW
Jumction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

2SB1118

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	ICBO	V _{CB} = -15V , I _E = 0			-0.1	μA
Emitter cutoff current	IEBO	V _{CB} = -4V , I _E = 0			-0.1	μA
DC current Gain	hFE	V _{CE} = -2V , I _C = -50mA	140		560	
		V _{CE} = -2V , I _C = -500mA	60			
Gain bandwidth product	f _T	V _{CE} = -10V , I _C = -50mA		250		MHz
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -5mA , I _B = -0.5mA		-15	-35	V
		I _C = -100mA , I _B = -10mA		-60	-120	
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -100mA , I _B = -10mA		-0.8	-1.2	V
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -10μA , I _E = 0	-20			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA , R _{BE} = ∞	-15			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -10μA , I _C = 0	-5			V
Output capacitance	C _{ob}	V _{CB} = -10V , f = 1MHz		13		pF

■ hFE Classification

Marking	BA		
	S	T	U
hFE	140~280	200~400	280~560