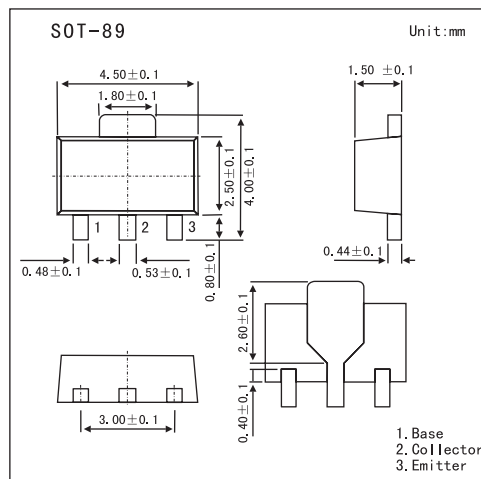


2SB798

Features

- World standard miniature package:SOT-89
- Low collector saturation voltage: $V_{CE(sat)} < -0.4V$ ($I_C = -1.0A, I_B = -100mA$)
- Excellent DC Current Gain Linearity: $h_{FE} = 100TYP.$ ($V_{CE} = -10.V, I_C = -1.0A$)



Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector to base voltage	V_{CBO}	-30	V
Collector to emitter voltage	V_{CEO}	-25	V
Emitter to base voltage	V_{EBO}	-5	V
Collector current	I_C	-1	A
Collector current(Pulse) *	I_C	1.5	A
Total power dissipation	P_T	2	W
Junction temperature	T_j	150	$^\circ C$
Storage temperature range	T_{stg}	-55 to +150	$^\circ C$

* $PW \leq 10ms, duty\ cycle \leq 50\%$.

Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -30 V, I_E = 0$			-100	nA
Emitter cutoff current	I_{EBO}	$V_{EB} = -5.0 V, I_C = 0$			-100	nA
DC current gain *	h_{FE}	$V_{CE} = -1.0 V, I_C = -100 mA$	90	200	400	
		$V_{CE} = -1.0 V, I_C = -1.0A$	50	100		
Collector saturation voltage *	$V_{CE(sat)}$	$I_C = -1A, I_B = -0.1A$		-0.25	-0.4	V
Base saturation voltage *	$V_{BE(sat)}$	$I_C = -1A, I_B = -0.1A$		-1.0	-1.2	V
Base-emitter voltage *	V_{BE}	$V_{CE} = -6.0 V, I_C = -10 mA$	-600	-640	-700	mV
Gain bandwidth product	f_T	$V_{CE} = -6.0 V, I_E = 10 mA$		110		MHz
Output capacitance	C_{ob}	$V_{CB} = -6.0 V, I_E = 0, f = 1.0 MHz$		36		pF

* Pulsed: $PW \leq 350 \mu s, duty\ cycle \leq 2\%$

hFE Classification

Marking	DM	DL	DK
h_{FE}	90~180	135~270	200~400