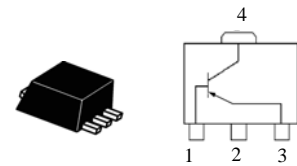# 2SB799

PNP- Silicon General use Transistors

1W 、 1.5A、 25V

Applications：Can be used for switching and amplifying in various

electrical and electronic circuit.

SOT-89

Maximum ratings

Parameters	Symbol	Rating	Unit
Collector-emitter voltage (I_B=0)	V_{CEO}	25	V
Collector-base voltage （I_E=0）	V_{CBO}	40	V
Emitter-base voltage （I_C=0）	V_{EBO}	6	V
Collector current	I_C	1.5	A
Total dissipation power(T_A=25℃)*	P_{tot}	1	W
Junction temperature	T_{jm}	150	℃
Storage temperature	T_{stg}	-55～150	℃
* Device is mounted on a printed circuit board.			

Electrical characteristics（Unless otherwise specified，T_A=25℃）

Parameters	Symbol	Test condition	Min.	typ	Max.	Unit
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=2mA，I_B=0	25	—	—	V
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=100μA，I_E=0	40	—	—	V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=100μA，I_C=0	6	—	—	V
Forward current transfer ratio	h_{FE}	V_{CE}=1V；I_C=100mA	200	—	300	—
Collector-base current	I_{CBO}	V_{CB}=35V，I_E=0	—	—	100	nA
Collector-emitter saturation voltage	$V_{CE（sat）}$	I_C=800mA，I_B=80mA	—	—	0.5	V
Characteristic frequency	f_T	I_C=50mA, V_{CE}=10V, f=100MHz	200	—	—	MHz

Outline Dimensions

Unit：mm
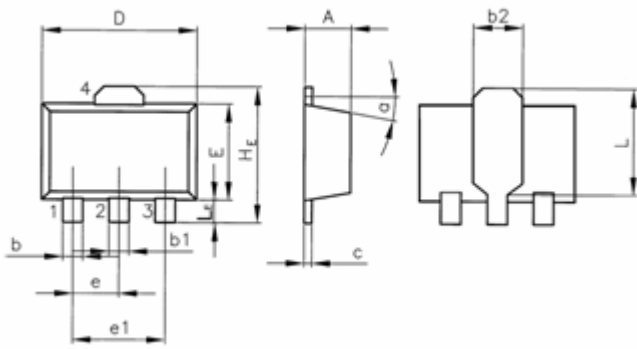
Dimensions Symbol	SOT-89		
	min	type	max
A	1.4		1.6
b	0.35		0.55
b1	0.4		0.65
b2		1.6	
c	0.35		0.45
D	4.4		4.6
E	2.35		2.55
e		1.5	
e1		3	
HE		4.15	
L		2.7	
LE		1.0	
α		5o	

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