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SOT-89 PNP Silicon PNP transistor in a SOT-89 Plastic Package.

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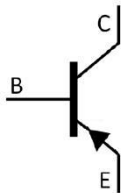
2SD2185

Low $V_{CE(sat)}$, complementary to 2SD2185.

v

For low frequency output amplification.

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PIN1 Base PIN 2 Collector PIN 3 Emitter

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h_{FE} Classifications Symbol	R	S
h_{FE} Range	120 240	170 340
Marking	H1IR	H1IS

Ω 3 A

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Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-50	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current-Continuous	I_C	-2.0	A
Collector Current -Continuous(Pulse)	I_{CP}	-3.0	A
Collector Power Dissipation*	$*P_C$	1.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

*printed circuit board: copper foil area of 1cm^2 or more, and the board thickness of 1.7mm for C portion.

*

C

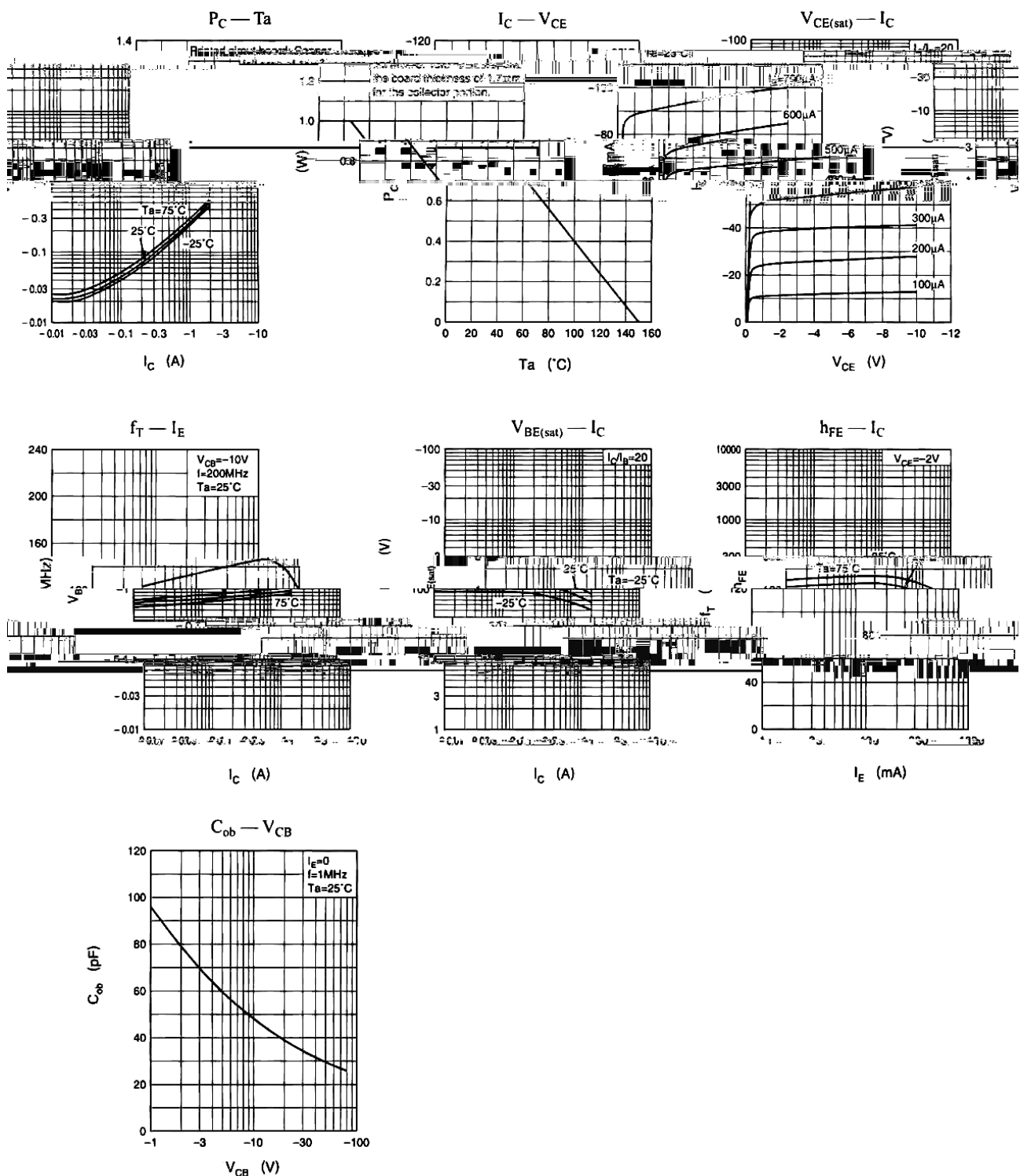
1cm^2

1.7mm

Ω 1 3 A

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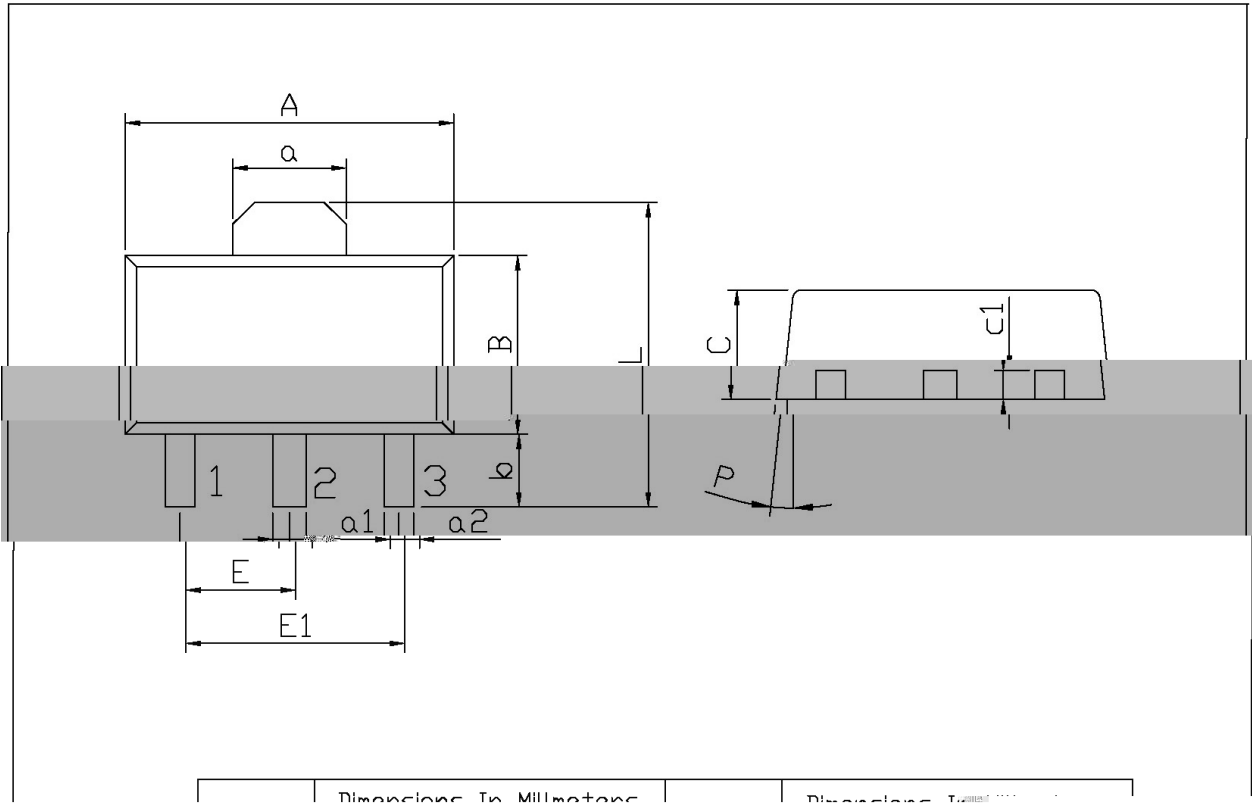
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-10\mu\text{A}$ $I_E=0$	-50			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-1.0\text{mA}$ $I_B=0$	-50			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-10\mu\text{A}$ $I_C=0$	-5.0			V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2.0\text{V}$ $I_C=-200\text{mA}$	120		340	
	$h_{FE(2)}$	$V_{CE}=-2.0\text{V}$ $I_C=-1.0\text{A}$	60			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-1.0\text{A}$ $I_B=-50\text{mA}$		-0.2	-0.3	V
Collector to Base Saturation Voltage	$V_{BE(sat)}$	$I_C=-1.0\text{A}$ $I_B=-50\text{mA}$		-0.85	-1.2	V
Transition Frequency	f_T	$V_{CB}=-10\text{V}$ $I_C=-50\text{mA}$ $f=200\text{MHz}$		80		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10\text{V}$ $I_E=0$ $f=1.0\text{MHz}$		45	60	pF

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封装形式

SOT-89

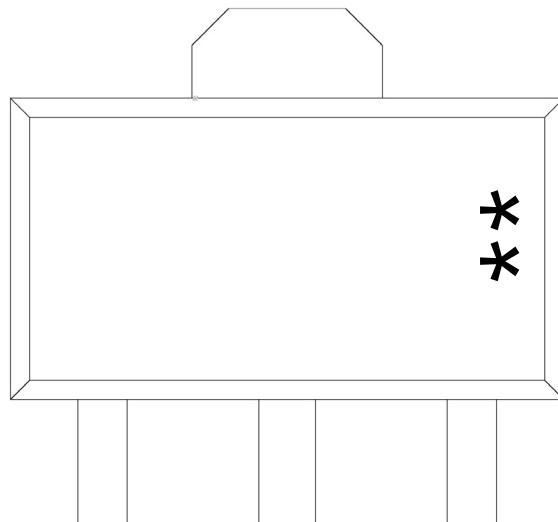
单位: mm



Dimensions In Millimeters

Symbol	Min	Max	Symbol	Min	Max
a	1.40	1.60	C	0.30	0.50
E	1.40	1.60	P	6°	
E1	2.80	3.20			
b	1.60	1.80			

1. 2



H

1I

R: h_{FE}

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Note:

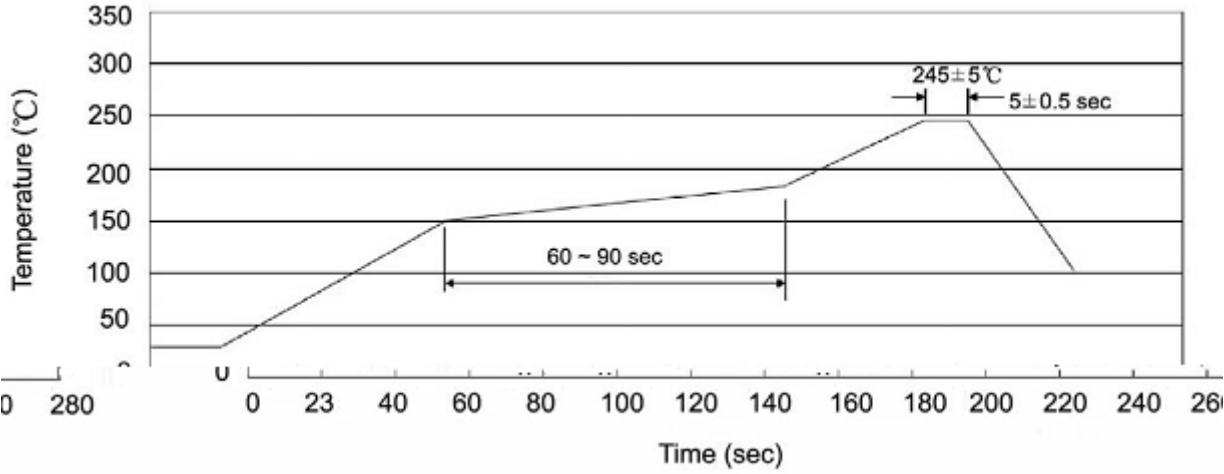
H: Company Code.

1I: Product Type.

R: h_{FE} Classifications Symbol

**: Lot No. Code, code change with Lot No.

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Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

1 0 Y T

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

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/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
SOT-89	1,000	7	7,000	8	56,000	7 ×12	180×120×180	385×257×392

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