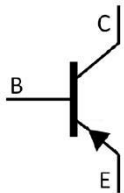


SOT-89 PNP Silicon PNP transistor in a SOT-89 Plastic Package.

2SD2185

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

For low frequency output amplification.



PIN1 Base PIN 2 Collector PIN 3 Emitter

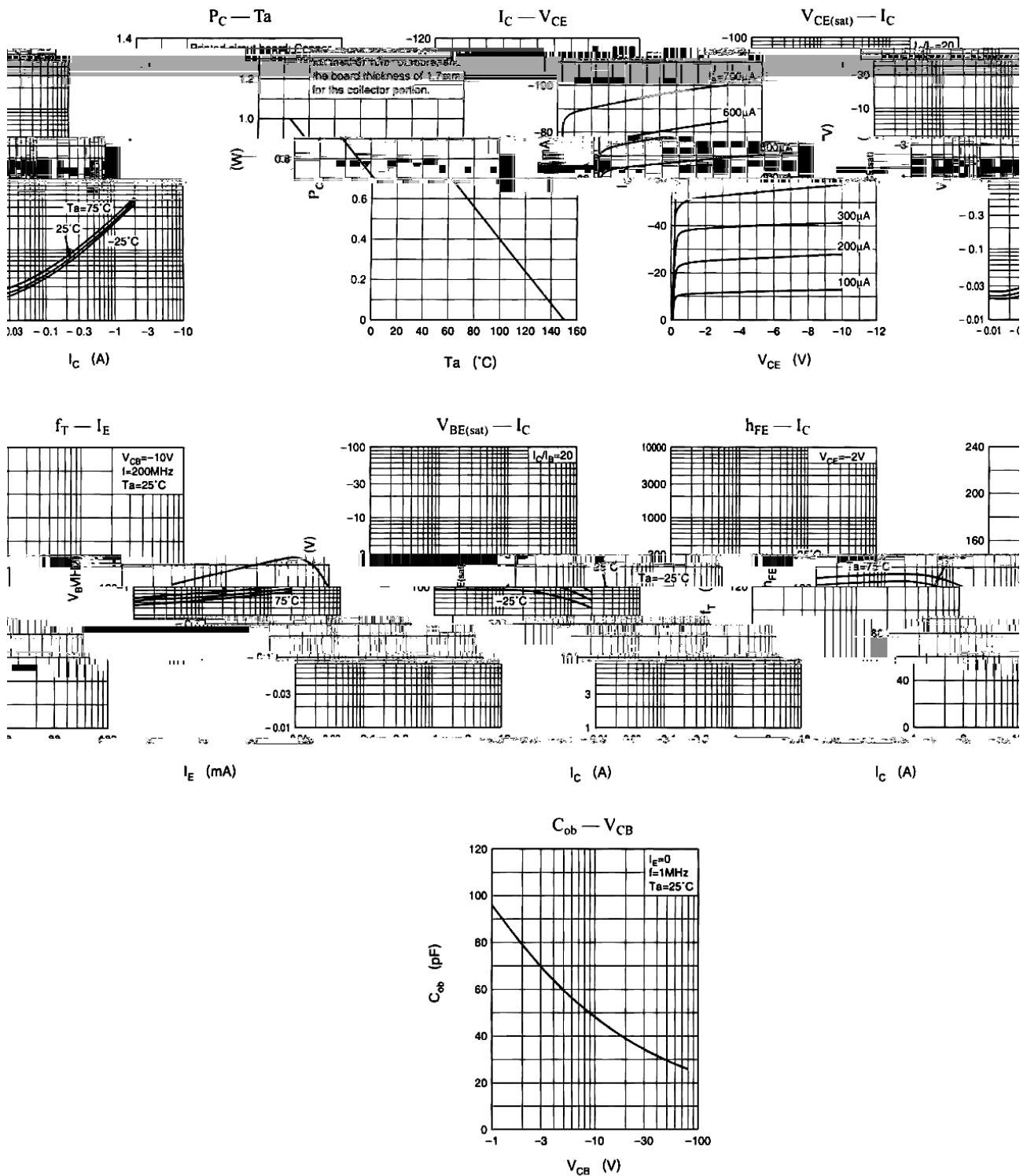
h_{FE} Classifications Symbol	R	S
h_{FE} Range	120 240	170 340
Marking	H1IR	H1IS

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.

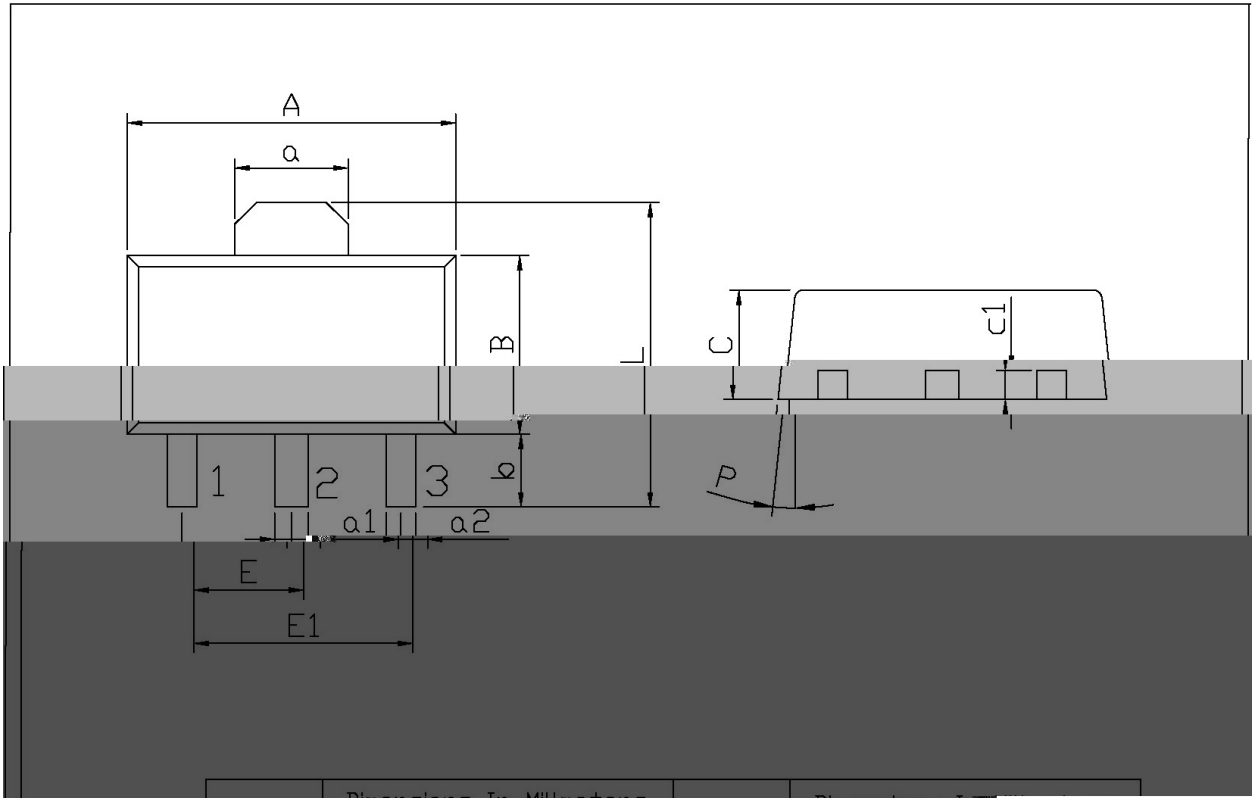
* C 1cm^2 1.7mm

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-10\text{ A}$ $I_E=0$	-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}	$I_E=-10\text{ A}$ $I_C=0$	-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

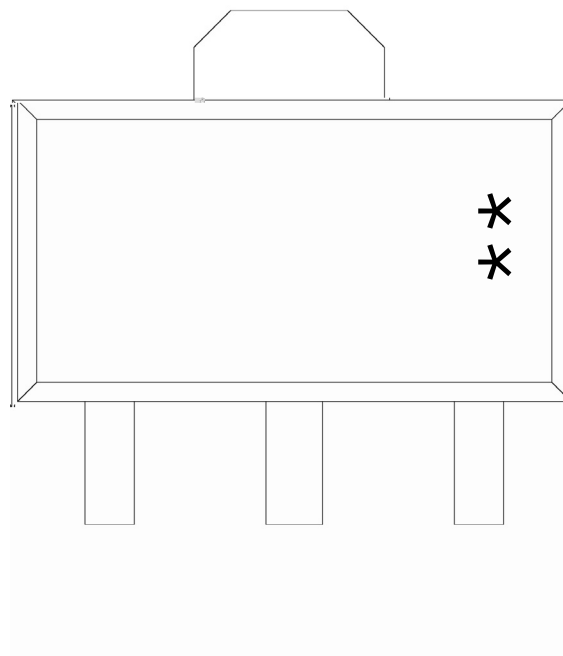


SOT-89

单位: mm



Dimensions In Millimeters	Dimensions In Inches
a	1.45, 1.65
E	1.40, 1.60
$E1$	2.80, 3.20
b	0.80, 1.20
$c1$	0.35, 0.50
P	6°



H

1I

R: h_{FE}

**

Note:

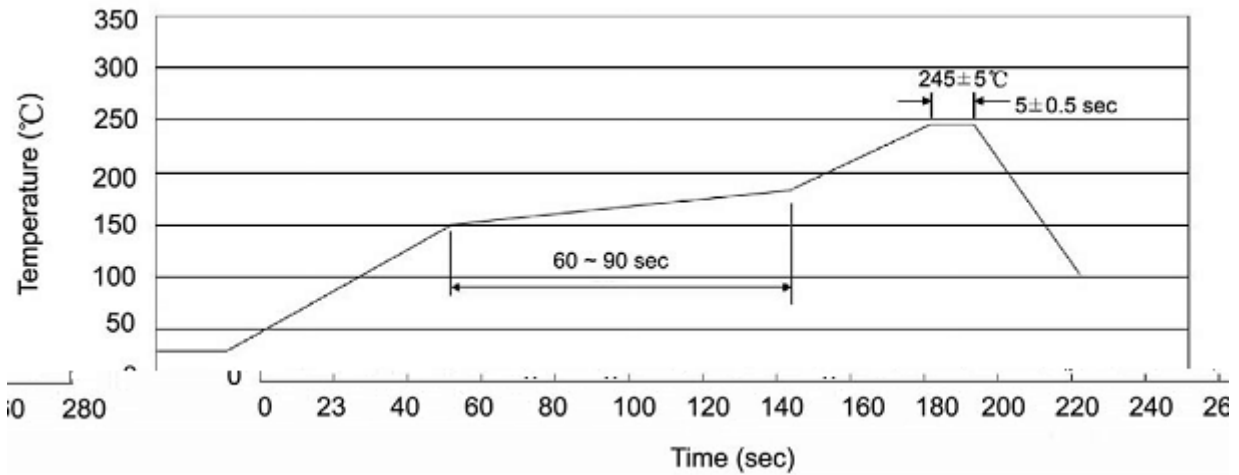
H: Company Code.

1I: Product Type.

R: h_{FE} Classifications Symbol

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

K\ d g\ i Xk i \ ' Gif] \ d] fi @ ' l \] f n J f d \ i e ^ Ž G Y \$ = i \ \ ž



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. |

260±5

10±1 sec.

Temp.: 260±5

Time: 10±1 sec

/ 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