2SB1189

Rev.E Mar.-2016

DATA SHEET

ˇYت / Descriptions

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

• È / Features

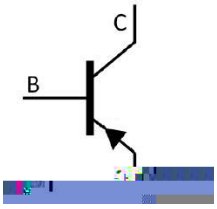
, 2SD1767

Low $V_{CE(sat)}$,complements the 2SD1767.

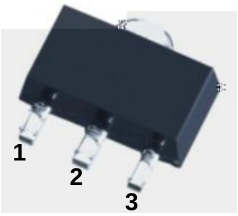
ﻳ ي / Applications

Medium power amplifier applications.

ﻝ ﻕ ﻕ ؛ ع / Equivalent Circuit



ã ﻻ ǚ / Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

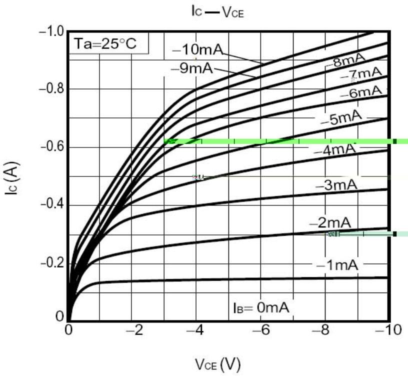
ﻉ ﺡ ﺏ / Marking

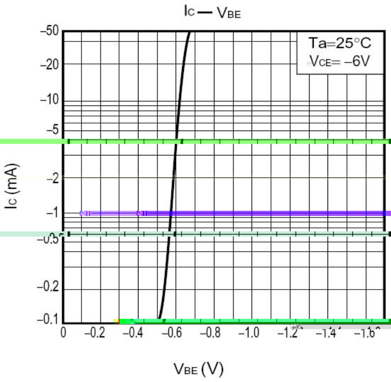
h_{FE} Classifications Symbol	P	Q	R
h_{FE} Range	82 180	120 270	180 390
Marking	HBDP⁑	HBDQ⁑	HBDR⁑

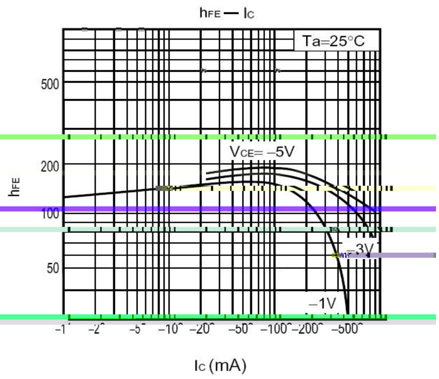
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-80	V

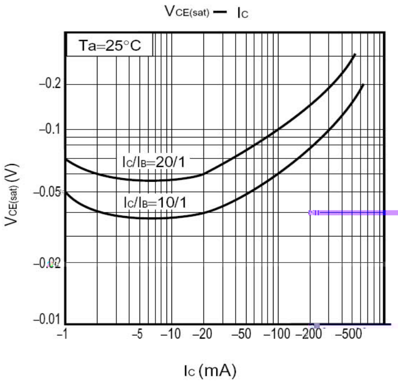
Colle

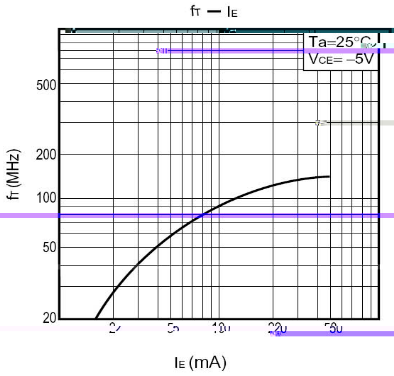
⁼ Ǝ ẶΈE Ʉ ʄ / Electrical Characteristic Curve

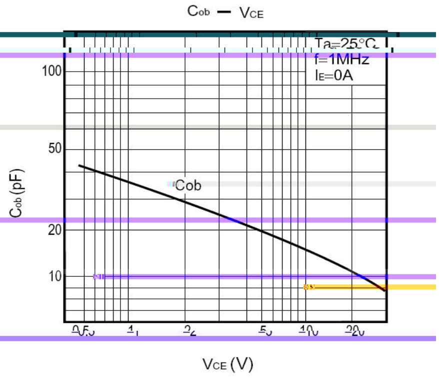


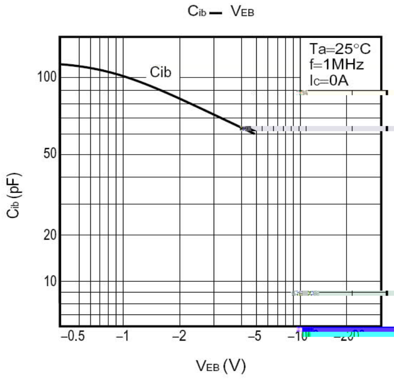


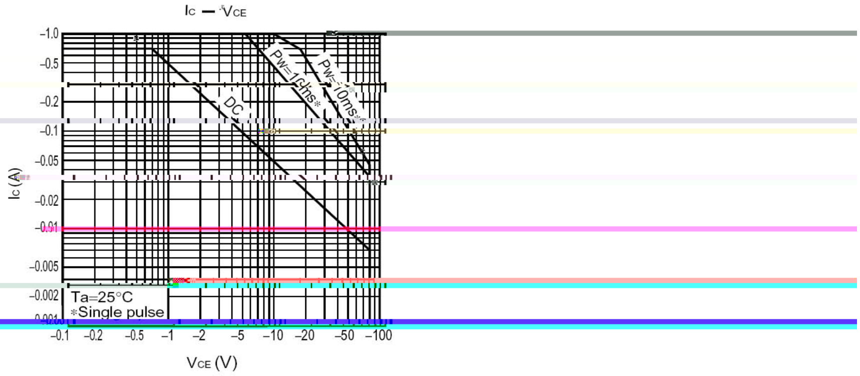




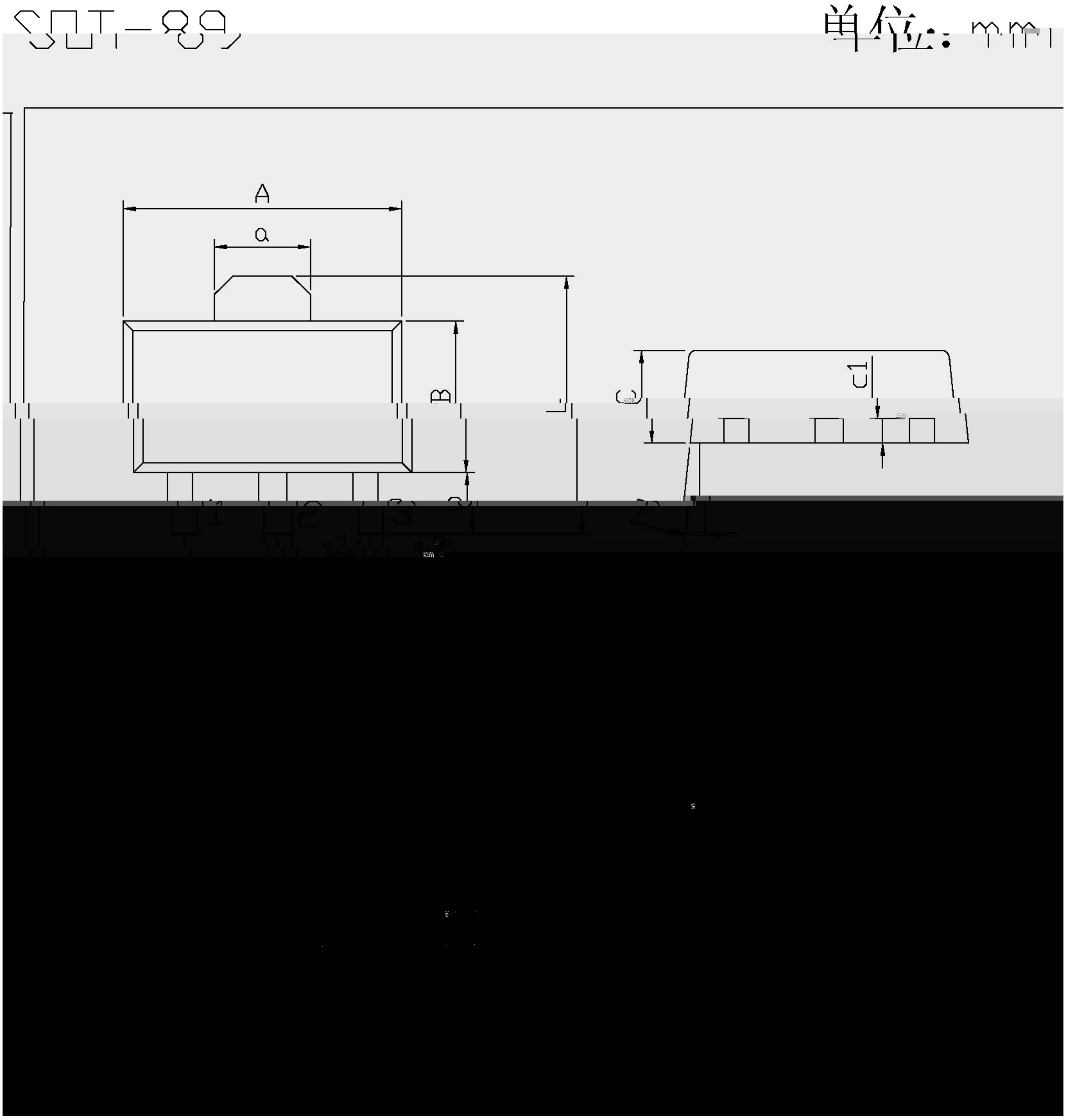




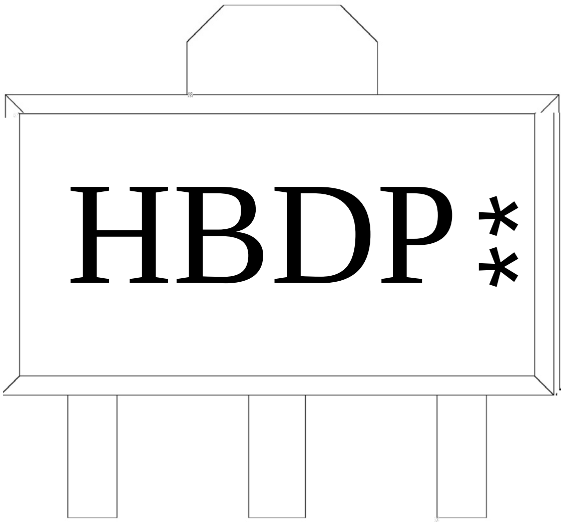




ᵘ ẺÒ Ḽ ƒ / Package Dimensions



ł˛ L˝Ω / Marking Instructions



H

BD

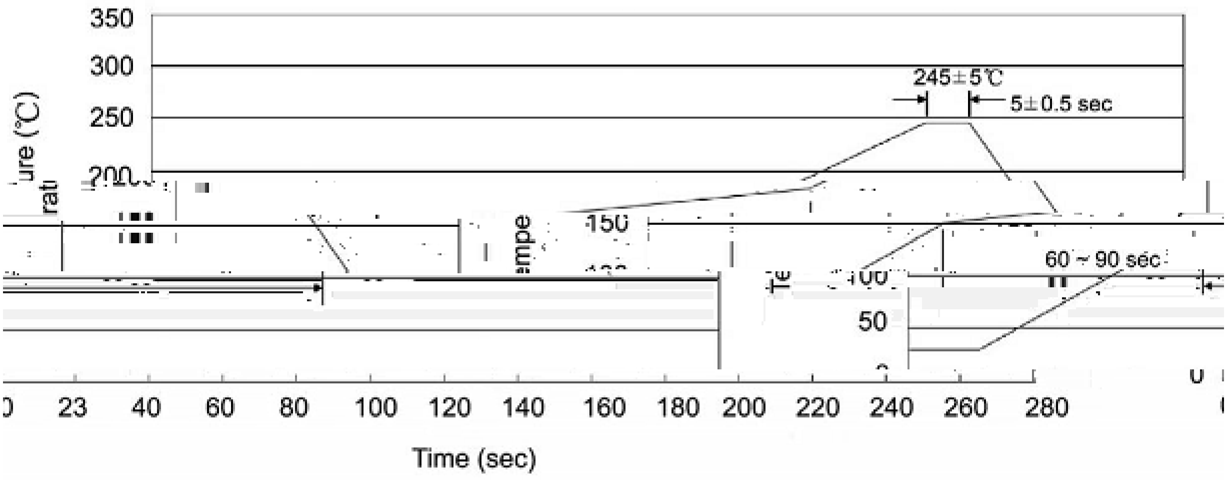
P h_{FE}

**

Note:

H:	Company Code.
BD:	Product Type.
P	h_{FE} Classifications Symbol
**:	Lot No. Code, code change with Lot No.

ŧh ʃ ╗ ẘ΄E ꟿ ƒ(ῷꞝ) / Wh p shudwxuh Sur iloh iru LU Uhior z Vrog hulqj+Se0 luhh,



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.

˧ ü q ̄ `Y Ţ / Resistance to Soldering Heat Test Conditions

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

ɐ ⊱ ⋞— / Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-89	1,000	7	7,000	8	56,000	7 ×12	180×120×180	385×257×392

ä ꝟ ʟ῏Ω / Notices