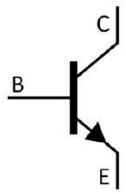
SOT-89 NPN Silicon NPN transistor in a SOT-89 Plastic Package.

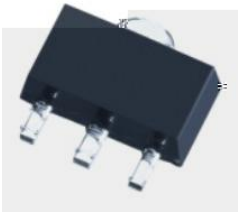
h_{FE} 2SB798

Low $V_{CE(sat)}$, excellent h_{FE} linearity, complements the 2SB798.

Audio frequency power amplifier applications.

Equivalent Circuit





PIN1 Base PIN 2 Collector PIN 3 Emitter

Marking

h_{FE}

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}	5.0	V
Collector Current-Continuous	I_C	1.0	A
Collector Current -Continuous(Pluse)	I_{CP}	1.5	A
Collector Power Dissipation	P_C	500	mW
Collector Power Dissipation*	$*P_C$	2.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

*mounted on ceramic substrate(16cmm^2×0.7mm)
* 16cmm^2×0.7mm

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=30V I_E=0			0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	V_{EB}=5.0V I_C=0			0.1	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=1.0V I_C=100mA	90	200	400	
	$h_{FE(2)}$	V_{CE}=1.0V I_C=1.0A	50	140		
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=1.0A I_B=100mA		0.21	0.4	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=1.0A I_B=100mA		1.0	1.2	V
Base to Emitter Voltage	V_{BE}	V_{CE}=6.0V I_C=10mA	600	630	700	mV
Transition Frequency	f_T	V_{CE}=6.0V I_C=10mA		130		MHz
Collector Output Capacitance	C_{ob}	V_{CB}=6.0V I_E=0 f=1.0MHz		22		pF

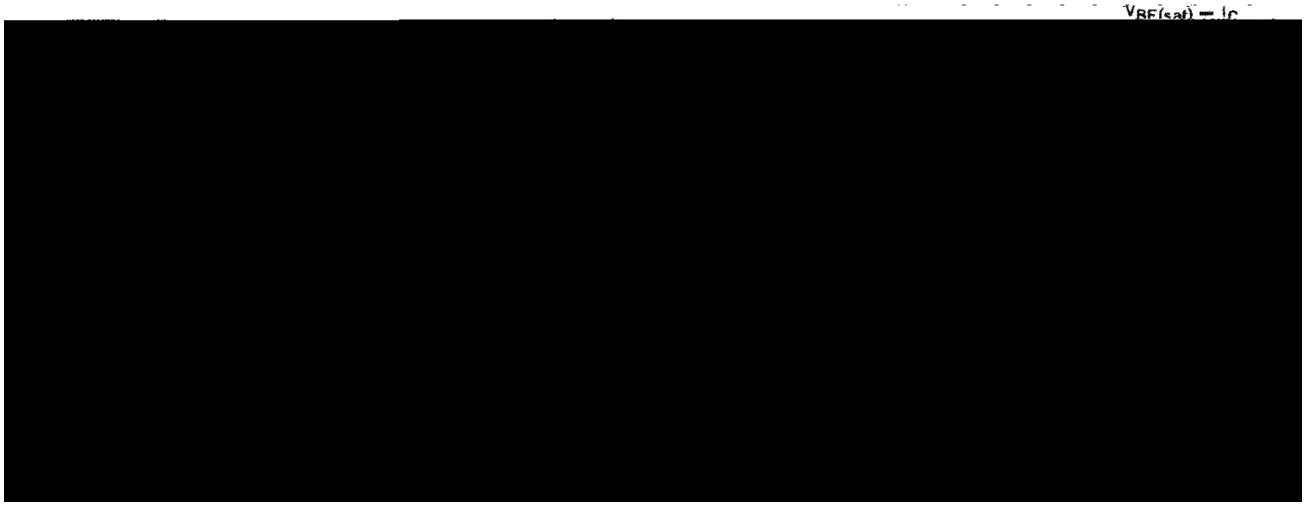
≠ ∃ ∇Ą´E ∀ ∫ / Electrical Characteristic Curve

P_C — T_a

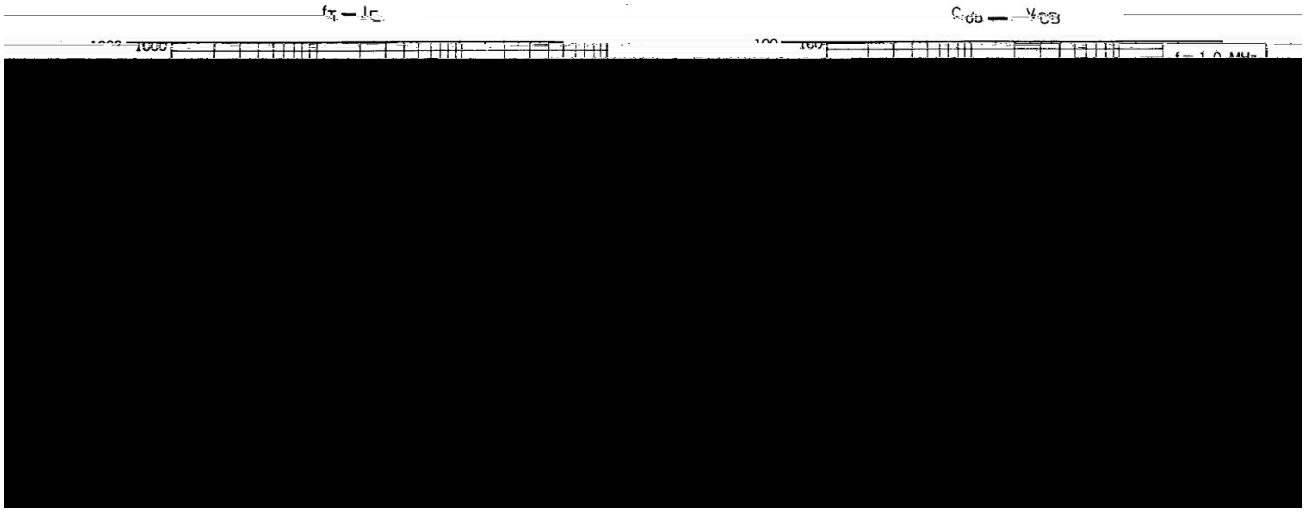


I_C — V_{CE}

$V_{BE(sat)}$ — I_C

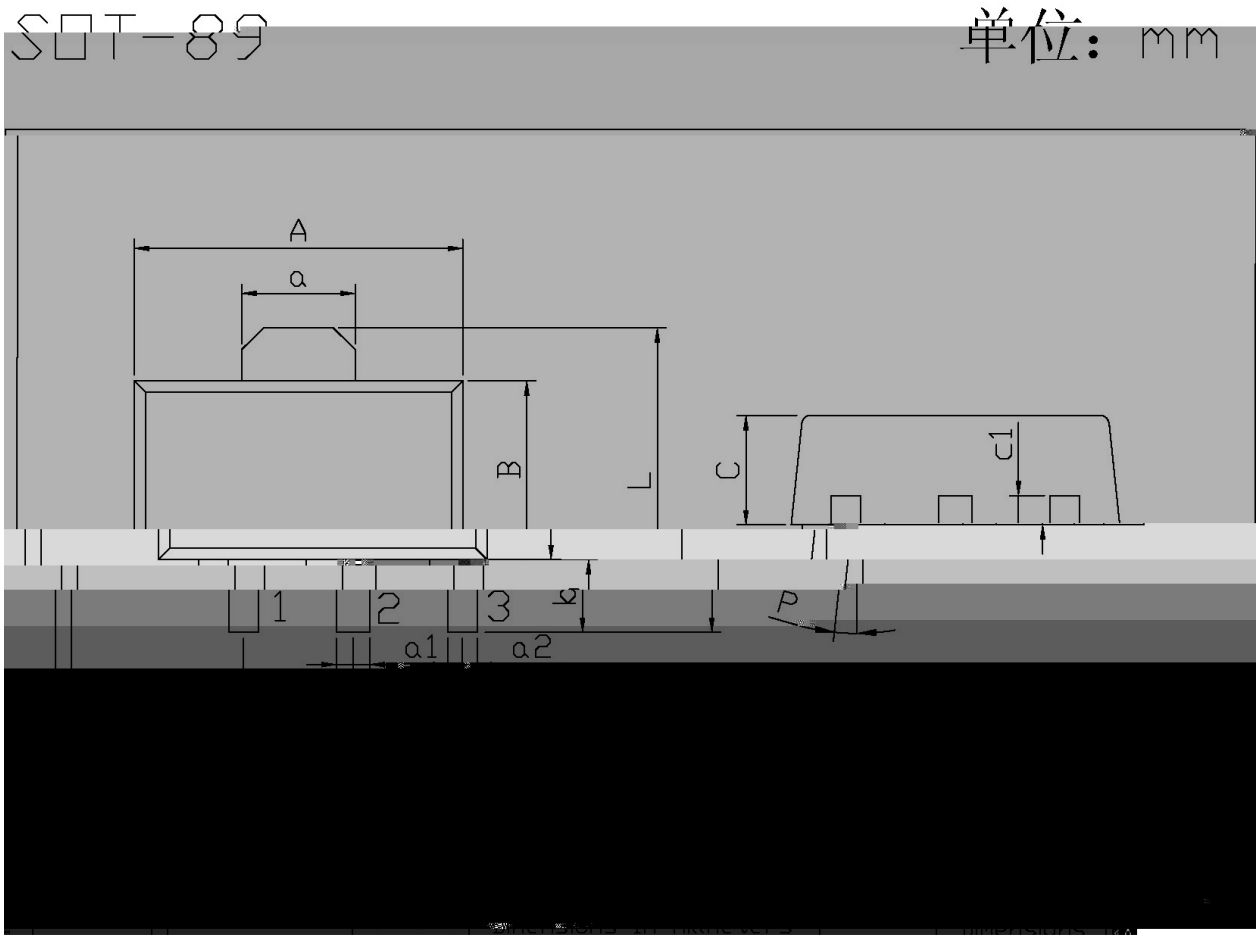


f_T — I_C



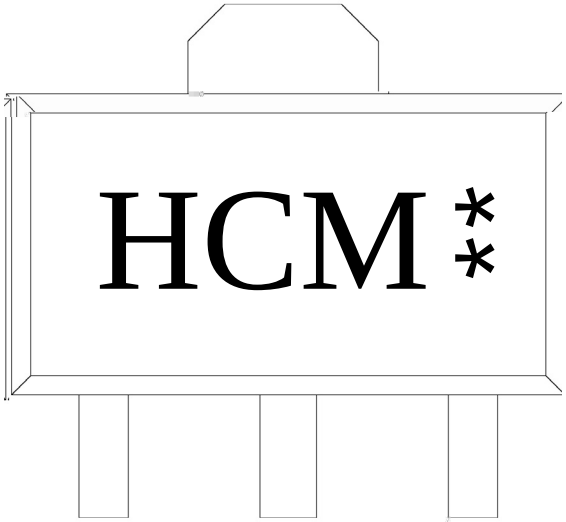
C_{ob} — V_{CB}

ᵘ ĖÒĻ ƒ / Package Dimensions



	Min	Max		Min	Max
A	4.4	4.7	a1	0.36	0.56
b	2.35	2.65	a2	0.38	0.53
L	3.878	4.478	C	1.40	1.7
a	1.415	1.665	c1	0.35	0.5
E	1.40	1.60	P	6°	
E1	2.80	3.20			

Ł. Ł Ω / Marking Instructions



H

C

M h_{FE}

**

Note:

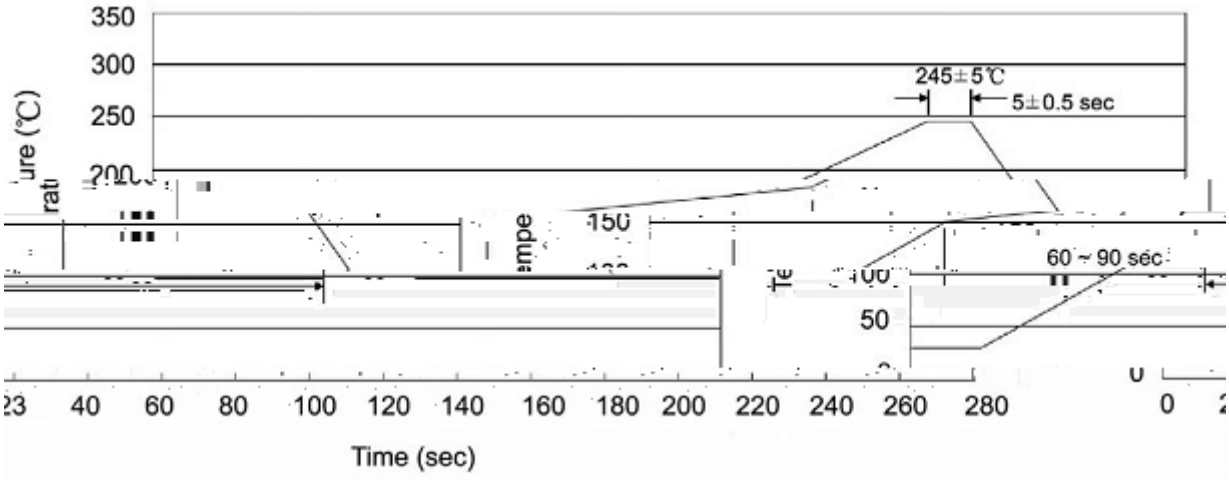
H: Company Code.

C: Product Type.

M h_{FE} Classifications Symbol

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

ѭ ʃ ╕ ẘ ´E ⅵ ƒ (ᾠ ƺ) / Wh p shudwxuh Suriloh iru LU Uhior z Vroghulq j+Se0luhh,



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.

ⅎ ŭ ɋ ‾ `Y Ţ / Resistance to Soldering Heat Test Conditions

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

ɒ Ŀ ≮ — / Packaging SPEC.

/ 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

ä ѵ Ļ Ѽ / Notices