"Yت / Descriptions

VRW0;< ṂṂ Ŀ QSQ ÆṀ ч s ‖ ㄱ Silicon NPN transistor in a SOT-89 Plastic Package.

◕ È / Features

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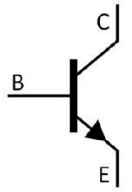
High current, Low saturation voltage.

ѵ ۽ / Applications

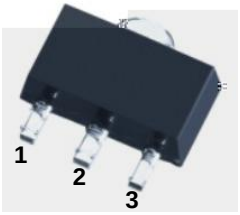
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Driver stages of audio and video amplifiers.

Л ف ̃ ϕ ⁼ ɛ / Equivalent Circuit



ã ﻝ ὐ ̃ / Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

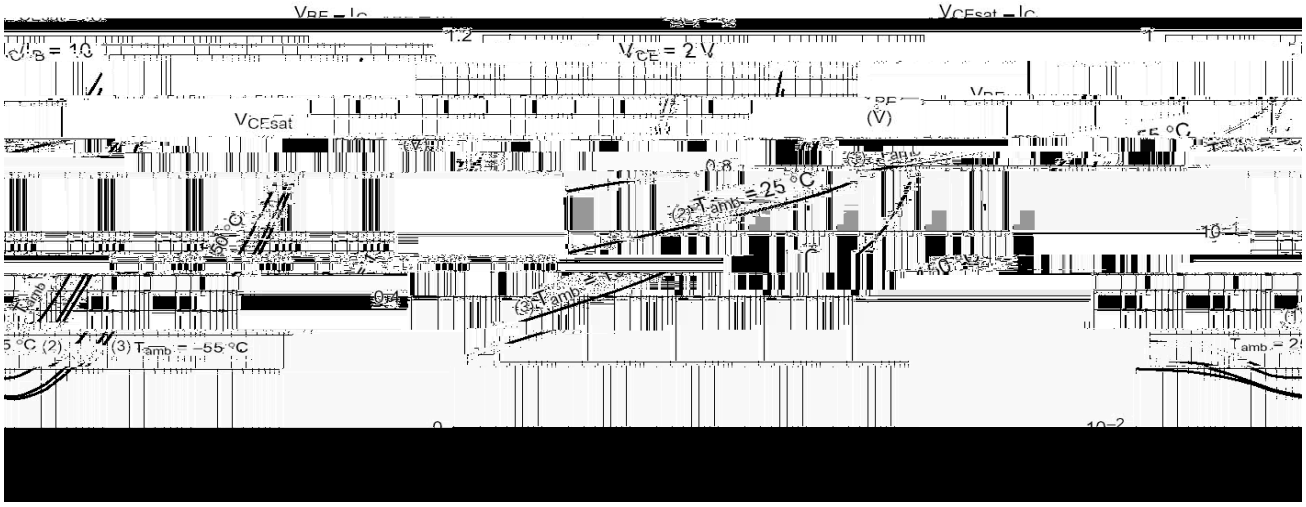
ł . ʜ ↄ / Marking

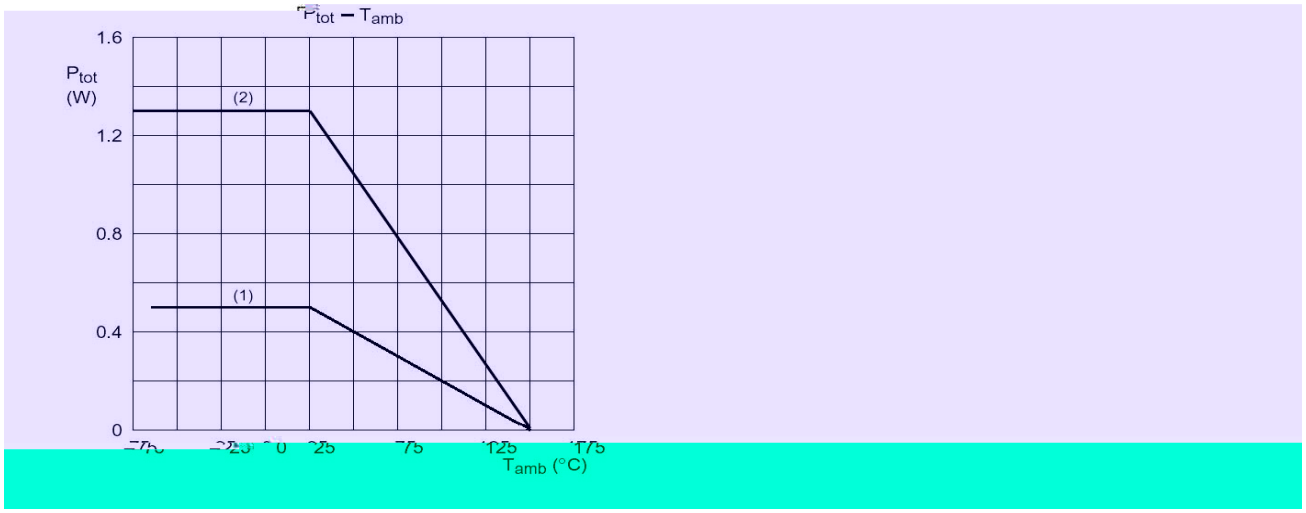
$h_{FE(1)}$ Classifications	10	16
$h_{FE(1)}$ Range	63 160	100 250
Marking	HBC ⁑	HBD ⁑

v ˝Ω Parameter	ϒ N Symbol	˝Ω Ö Rating	D Ч Unit
Collector to Base Voltage	V_{CBO}	45	V
Collector to Emitter Voltage	V_{CEO}	45	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current-Continuous	I_C	1.0	A
Peak Collector Current	I_{CM}	1.5	A
Peak Base Current	I_{BM}	0.2	A
Collector Power Dissipation	P		

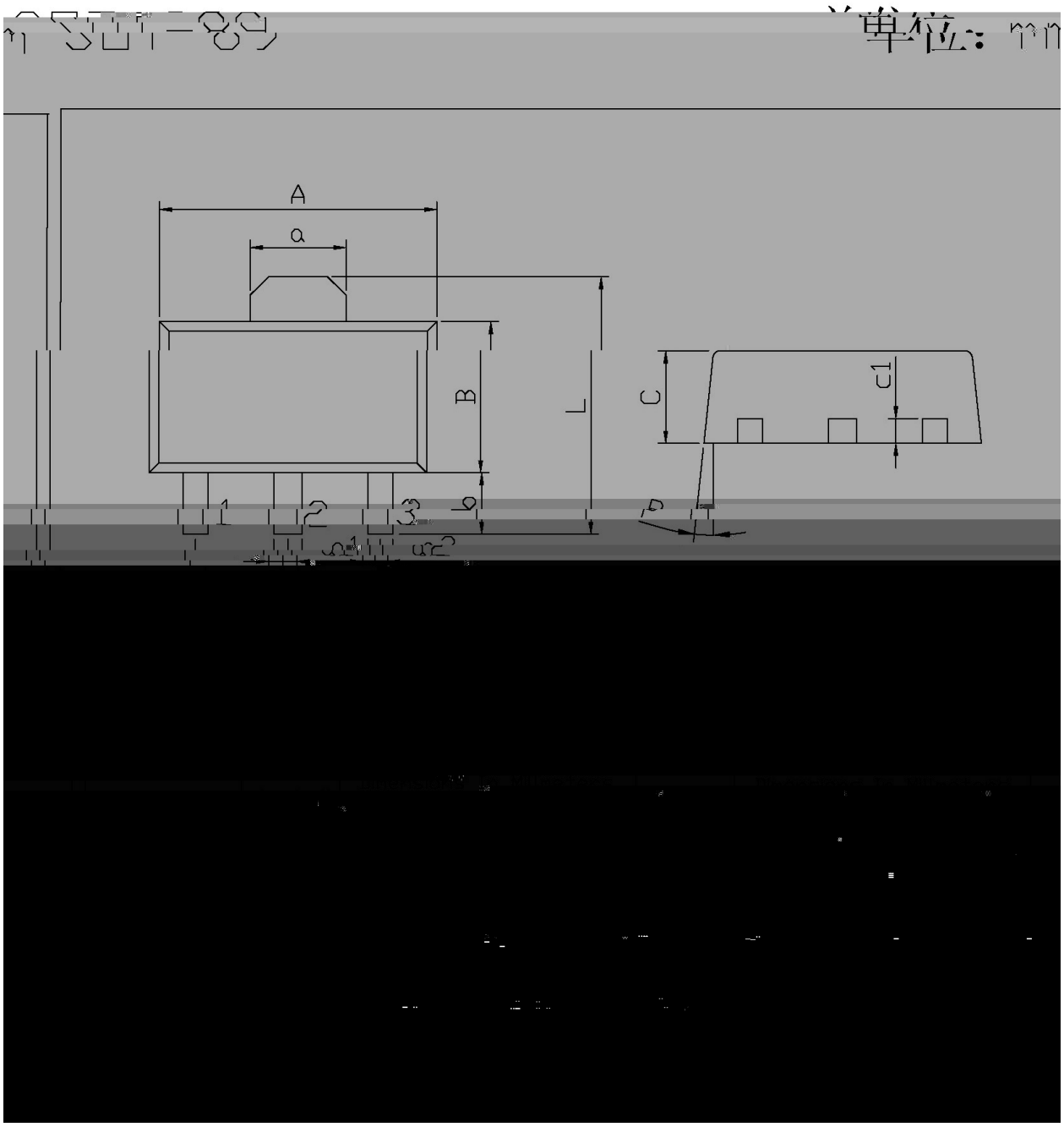
≠ Ǝ ⁋Ą´E ⅵ ƒ / Electrical Characteristic Curve



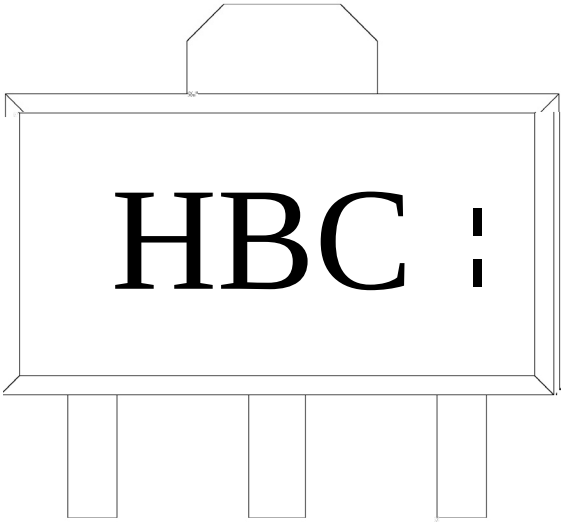




ᵘ Ė Ò Ļ ʃ / Package Dimensions



ł. Ļ‴Ω / Marking Instructions



ب ˝ χ

H χ ѭ ϛ И Ґ

BC χ ѭ ʒ N Ґ

-- χ ѭ ł ғ ӈ̃ N Ґ ı ϕ ł ғ ӈ̃ N Ψ ק

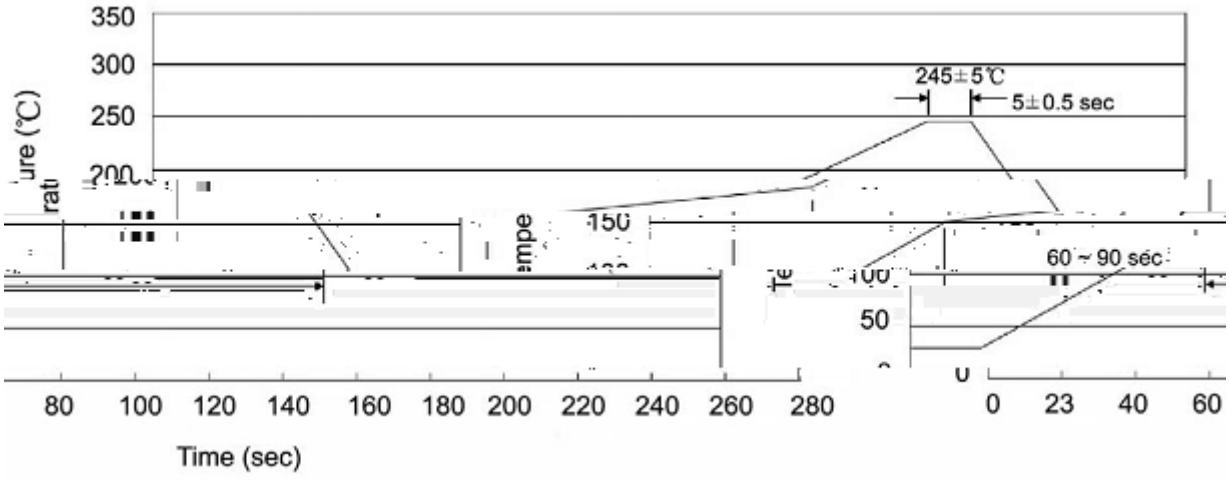
Note:

H: Company Code.

BC: Product Type.

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

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



ᄂ ˝ χ

1 Ĺ ♬ □ ẙ 25 Ḱ 150 ɬ ı ˋH ᴈ 60 Ḱ 90sec;

2 Š Ë □ ẙ 245 ° 5 ɬ ı ˋH ᴈ ˋY ⅄ ѭ 5 ° 0.5sec;

3 ì ˙ ⅵ ˛ ɔ ѡ ẙ ѭ 2 Ḱ 10 ɬ /sec.

Note:

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

2.Peak Temp.:245 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

⅄ ŭ ɋ ˉ ˋY Ţ / Resistance to Soldering Heat Test Conditions

□ ẙ χ 260 ° 5 ɬ	ˋH ᴈ χ 10 ° 1 sec.	Temp.:260±5	Time:10±1 sec

ɒ Ŀ ≮ — / Packaging SPEC.

ɔ ` ɣ Ŀ / REEL

Package Type	Units					Dimension		(unit mm^3)

ä ⍮ ŗ Ѿ / Notices