

/ Descriptions

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

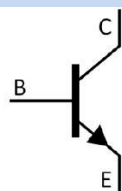
/ Features

8550T  
Complementary pair with 8550T, HF Product.

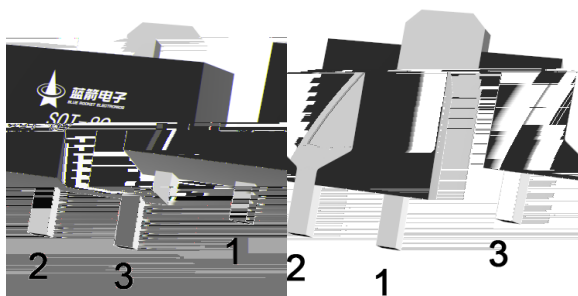
/ Applications

Power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1    Base            PIN 2    Collector            PIN 3    Emitter

/ Marking

|                                    |             |             |             |
|------------------------------------|-------------|-------------|-------------|
| $h_{FE}$ Classifications<br>Symbol | B           | C           | D           |
| $h_{FE}$ Range                     | 85   160    | 120   200   | 160   300   |
| Marking                            | HY1B *<br>* | HY1C *<br>* | HY1D *<br>* |

| Parameter                      | Symbol    | Rating | Unit |
|--------------------------------|-----------|--------|------|
| Collector to Base Voltage      | $V_{CBO}$ | 40     | V    |
| Collector to Emitter Voltage   | $V_{CEO}$ | 25     | V    |
| Emitter to Base Voltage        | $V_{EBO}$ | 6.0    | V    |
| Collector Current - Continuous | $I_C$     | 1.5    | A    |
| Collector Base - Continuous    | $I_B$     | 0.5    | A    |
| Collector Power Dissipation    | $P_C$     | 500    | mW   |
| Junction Temperature           | $T_j$     | 150    |      |
| Storage Temperature Range      | T         |        |      |

Ô ? d • Ž ¢ / Electrical Characteristic Curve



Ø □ = ) ¢ / Package Dimensions

# HY1B

<sup>a</sup> ¢ y

. y , [ W A

? y ° Z W A

( y N, + ã W A

y ÿ D Z W A k š ÿ D Z J

Note:

H: Company Code

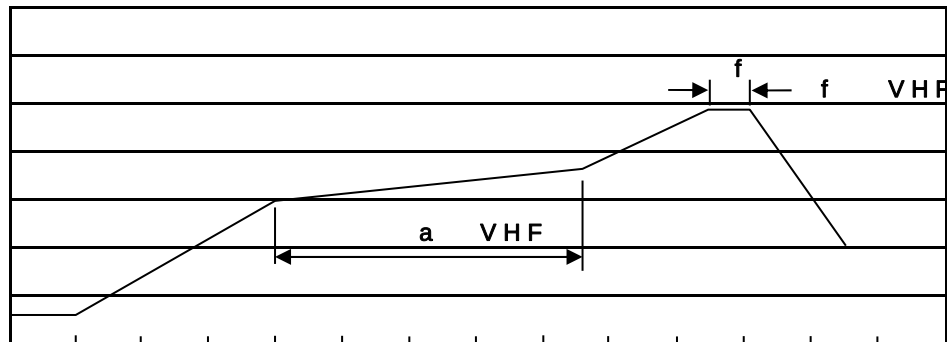
Y1: Product Type

B y h<sub>FE</sub> Classifications Symbol

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

šWD t... • Žč (x/ ) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HP SHUDWXXUH



### 7LPH VHF

a č y

10• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;

20• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;

30•D N ò i Ò 0 ,† 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

### ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“† y 260 r5 -

ž • y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

### G P á / Packaging SPEC.

2 & x / REEL

| Package Type<br>7>û ~ E | Units ;>û !H       |                          |                       |                                |                        | Dimension ;>û p . (unit /mm³) |             |             |
|-------------------------|--------------------|--------------------------|-----------------------|--------------------------------|------------------------|-------------------------------|-------------|-------------|
|                         | Units/Reel<br>/ -- | Reels/Inner Box<br>-- /- | Units/Inner Box<br>/- | Inner Boxes/Outer Box<br>- /1ç | Units/Outer Box<br>/1ç | Reel                          | Inner Box   | Outer Box   |
| SOT-89                  | 1,000              | 7                        | 7,000                 | 6                              | 42,000                 | 7 s ×12                       | 180×120×180 | 390×385×205 |

### „Đ y f / Notices