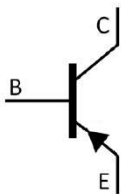


Silicon PNP transistor in a SOT-323 Plastic Package.

High current, low voltage complementary pair with BC848W.

General purpose switching and amplification.

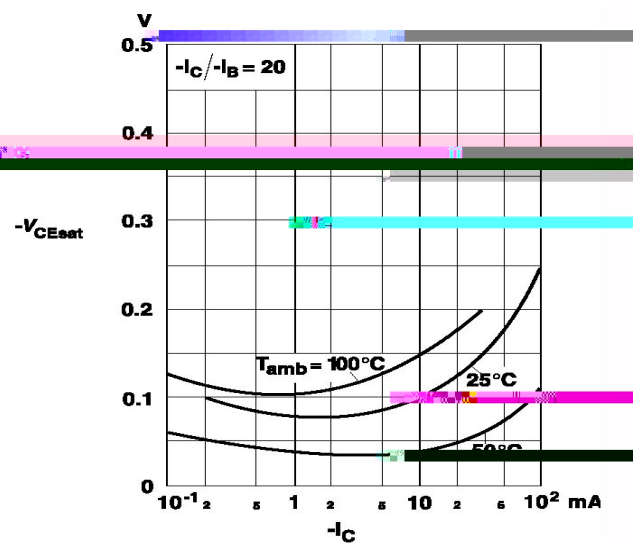
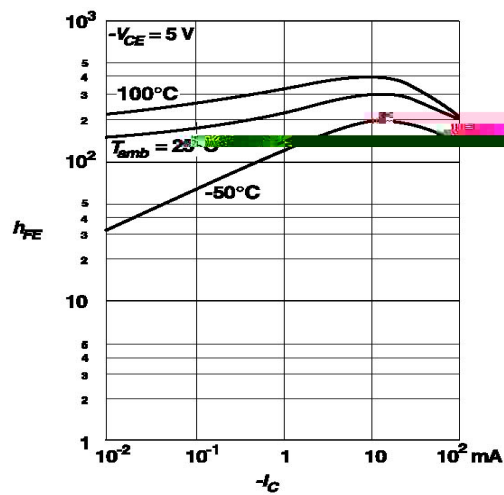
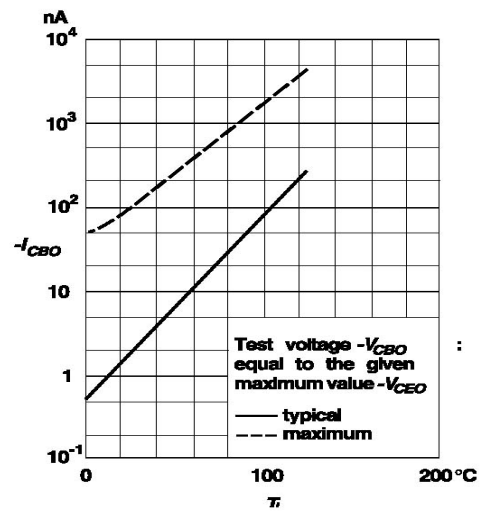
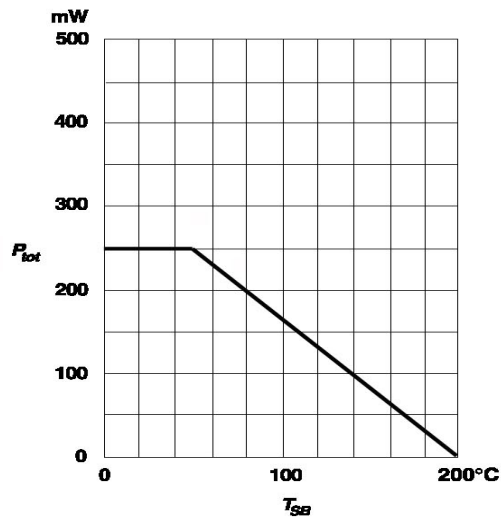
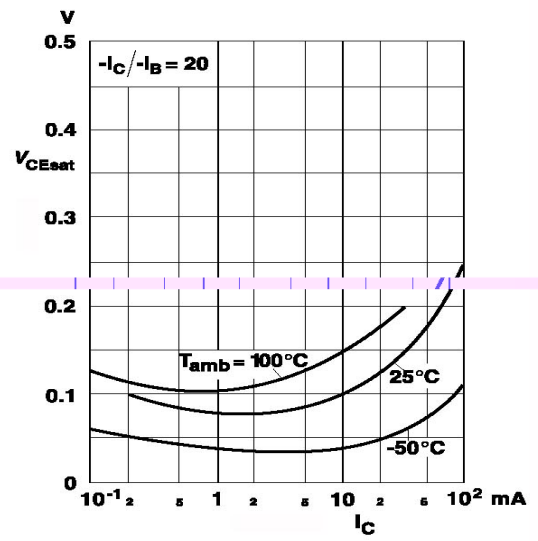
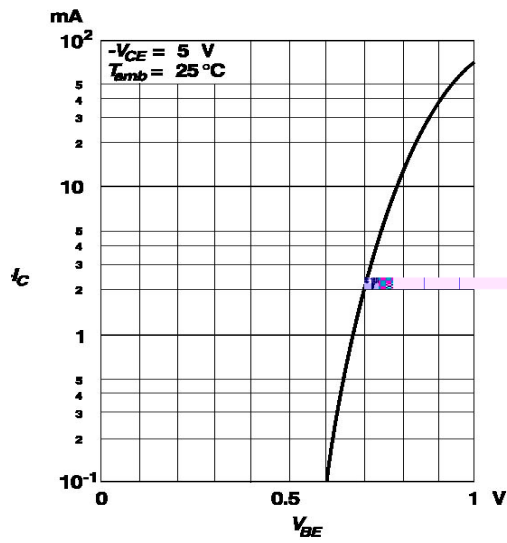


PIN1    Emitter                  PIN 2    Base                  PIN 3    Collector

|                          |     |     |     |     |
|--------------------------|-----|-----|-----|-----|
| $h_{FE}$ Classifications | A   |     | B   | C   |
| Symbol                   |     |     |     |     |
| $h_{FE}$ Range           | 125 | 250 | 220 | 475 |
| Marking                  | H3J |     | H3K | H3L |

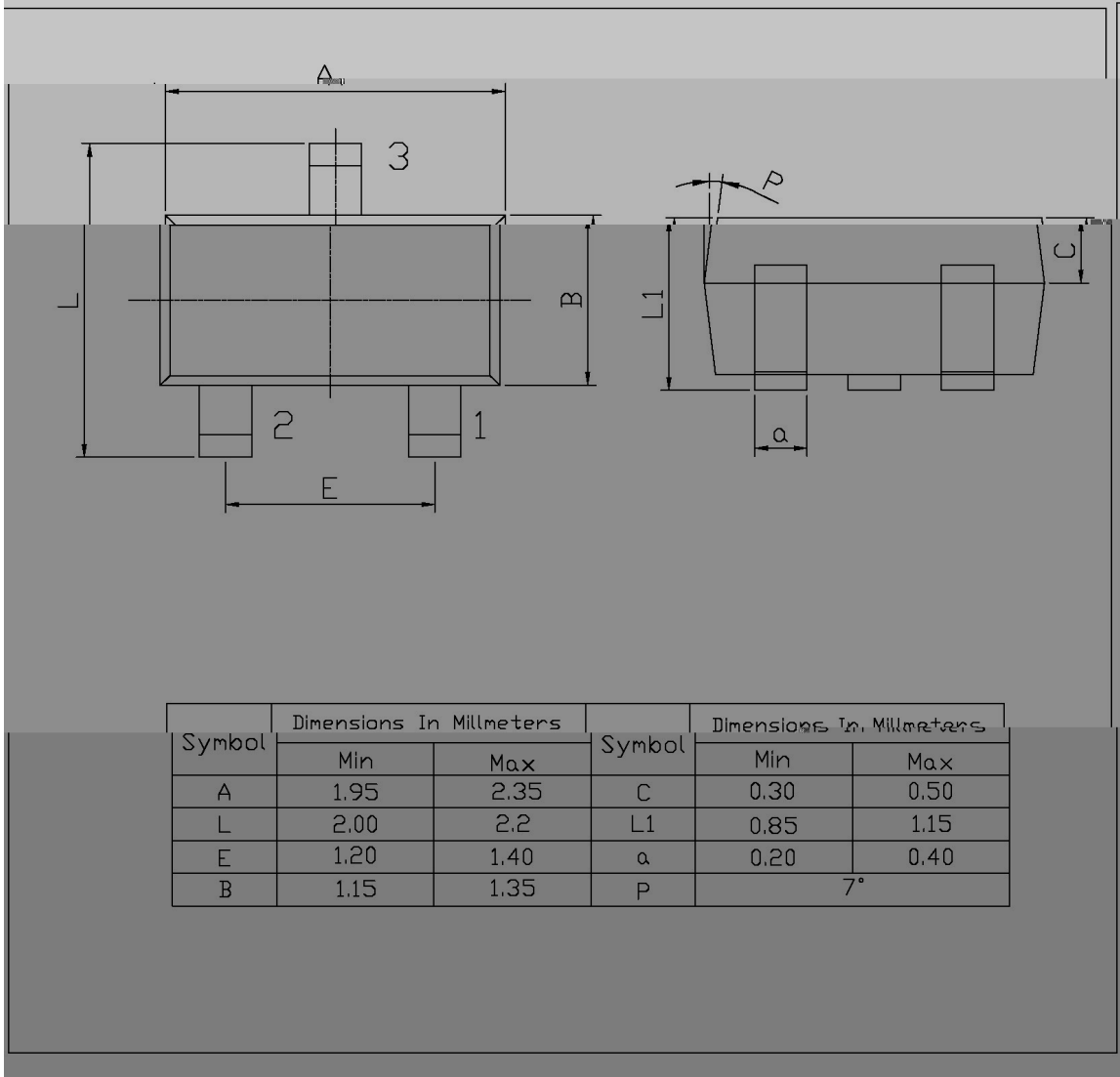
| Parameter                           | Symbol    | Rating  | Unit |
|-------------------------------------|-----------|---------|------|
| Collector to Base Voltage           | $V_{CBO}$ | -30     | V    |
| Collector to Emitter Voltage        | $V_{CEO}$ | -30     | V    |
| Emitter to Base Voltage             | $V_{EBO}$ | -5.0    | V    |
| Collector Current - Continuous      | $I_C$     | -100    | mA   |
| Peak Collector Current - Continuous | $I_{CM}$  | -200    | mA   |
| Collector Power Dissipation         | $P_C$     | 200     | mW   |
| Junction Temperature                | $T_j$     | 150     | °C   |
| Storage Temperature Range           | $T_{stg}$ | -55 150 | °C   |

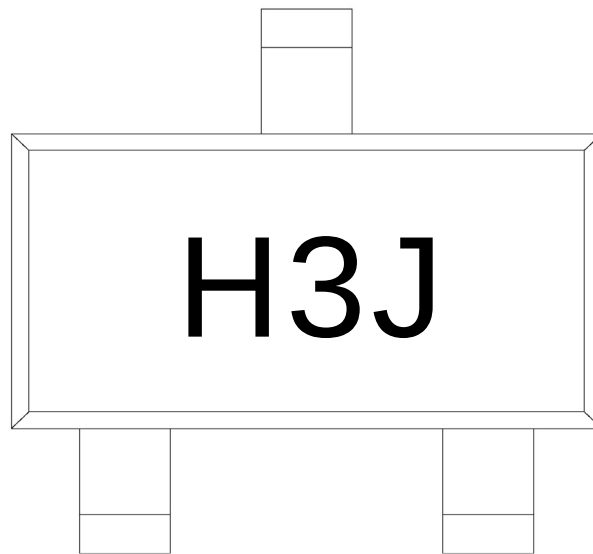
| Parameter                               | Symbol           | Test Conditions                                                    | Min  | Typ    | Max    | Unit    |
|-----------------------------------------|------------------|--------------------------------------------------------------------|------|--------|--------|---------|
| Collector Cut-Off Current               | $I_{CBO}$        | $V_{CB}=-30V$ $I_E=0$                                              |      |        | -0.015 | $\mu A$ |
| Emitter to Base Current                 | $I_{EBO}$        | $V_{EB}=-5.0V$ $I_C=0$                                             |      |        | -0.1   | $\mu A$ |
| DC Current Gain                         | $h_{FE}$         | $V_{CE}=-5.0V$ $I_C=-2.0mA$                                        | 125  |        | 800    |         |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)(1)}$ | $I_C=-10mA$ $I_B=-0.5mA$                                           |      | -0.075 | -0.3   | V       |
|                                         | $V_{CE(sat)(2)}$ | $I_C=-100mA$ $I_B=-5.0mA$                                          |      | -0.25  | -0.6   | V       |
| Base to Emitter Saturation Voltage      | $V_{BE(sat)(1)}$ | $I_C=-10mA$ $I_B=-0.5mA$                                           |      | -0.7   |        | V       |
|                                         | $V_{BE(sat)(2)}$ | $I_C=-100mA$ $I_B=-5.0mA$                                          |      | -0.85  |        | V       |
| Base to Emitter Voltage                 | $V_{BE(1)}$      | $V_{CE}=-5.0V$ $I_C=-2.0mA$                                        | -0.6 | -0.65  | -0.75  | V       |
|                                         | $V_{BE(2)}$      | $V_{CE}=-5.0V$ $I_C=-10mA$                                         |      |        | -0.82  | V       |
| Transition Frequency                    | $f_T$            | $V_{CE}=-5.0V$ $I_C=-10mA$ $f=100MHz$                              | 100  |        |        | MHz     |
| Collector Capacitance                   | $C_C$            | $V_{CB}=-10V$ $I_E=I_C=0$ $f=1.0MHz$                               |      |        | 3.0    | pF      |
| Emitter Capacitance                     | $C_e$            | $V_{EB}=-0.5V$ $I_C=I_E=0$ $f=1.0MHz$                              |      |        | 12     | pF      |
| Noise Figure                            | NF               | $I_C=-200\mu A$ $V_{CE}=-5.0V$ $R_S=2K\Omega$ $B=200Hz$ $f=1.0KHz$ |      |        | 10     | dB      |



SOT-323

单位; mm





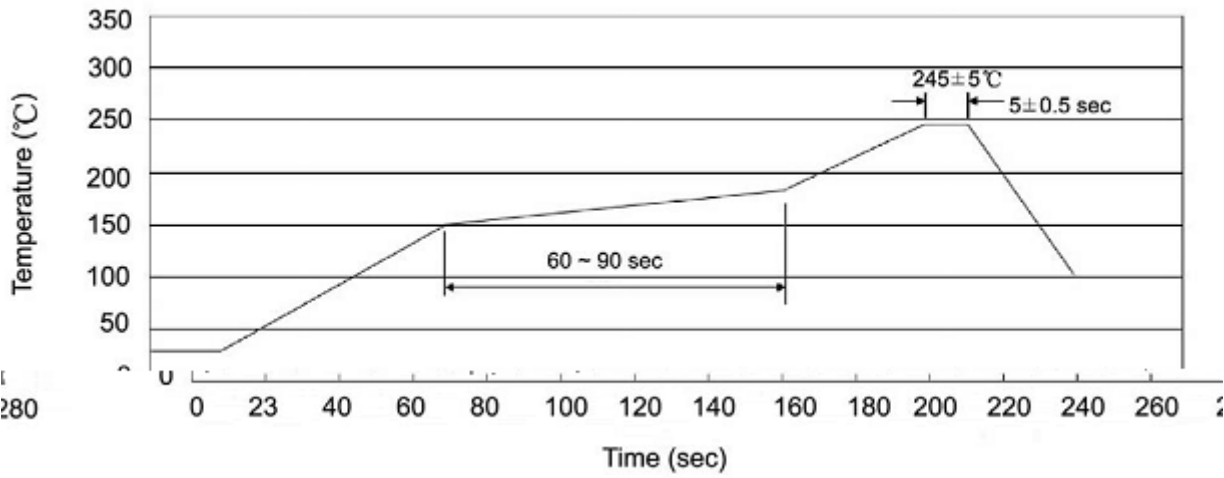
H

3J

Note:

H: Company Code.

3J: Product Type.



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°C

Time:10±1 sec

/ REEL

| Package Type<br>封装形式 | Units 包装数量         |                         |                        |                              |                        | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |             |             |
|----------------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|-----------------------------------------|-------------|-------------|
|                      | Units/Reel<br>只/卷盘 | Reels/Inner Box<br>卷盘/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Reel                                    | Inner Box 盒 | Outer Box 箱 |
| SOT-323              | 3,000              | 10                      | 30,000                 | 6                            | 180,000                | 7 ×8                                    | 180×120×180 | 390×385×205 |