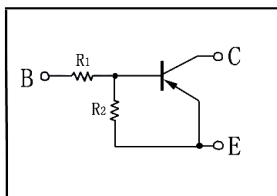


Silicon PNP Digital transistor in a SOT-23 Plastic Package.

With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process.

Switching, inverter circuit, interface circuit and driver circuit applications.

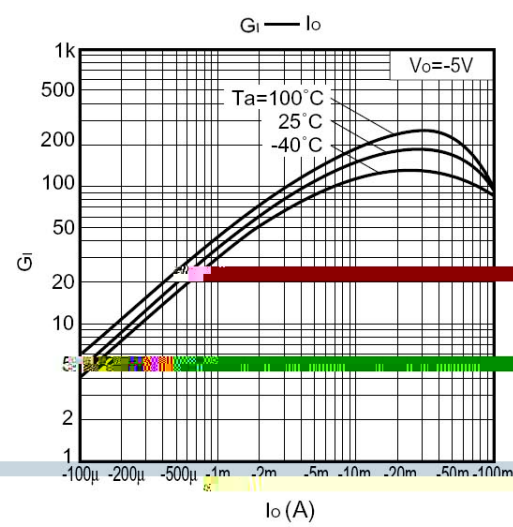
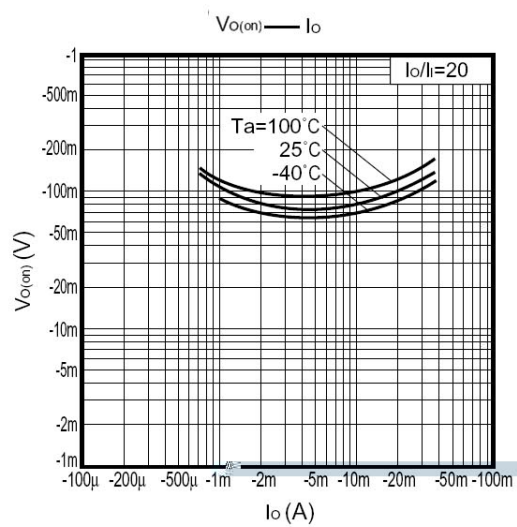
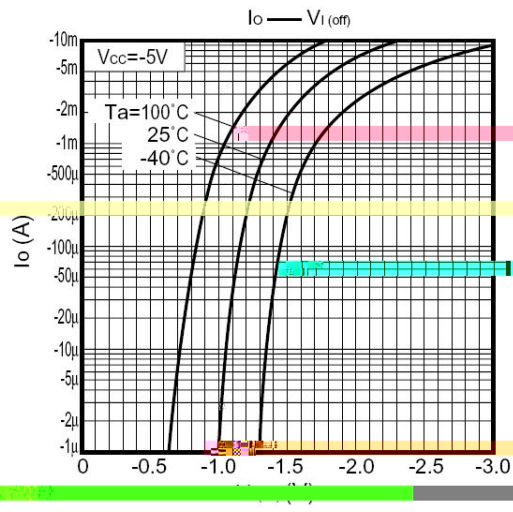
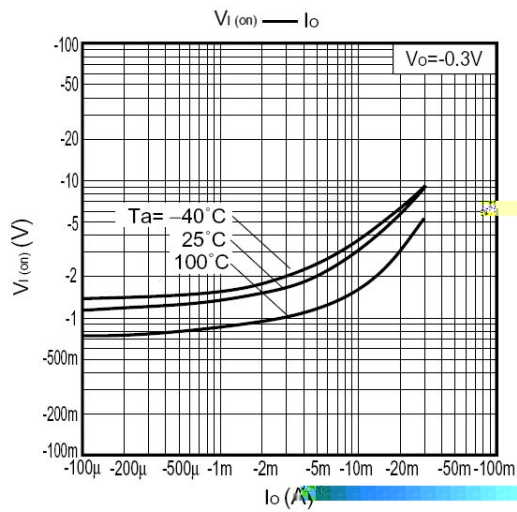


PIN 1 Base      PIN 2 Emitter      PIN 3 Collector

|         |     |
|---------|-----|
| Marking | H15 |
|---------|-----|

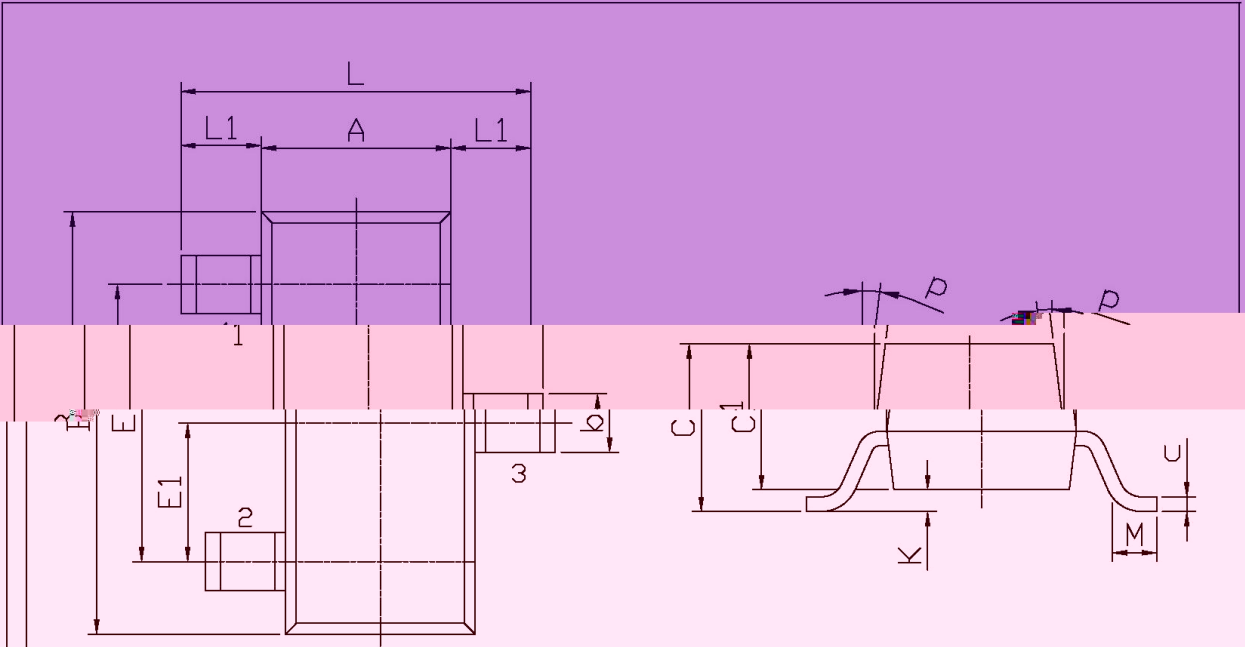
| Parameter                 | Symbol    | Rating  | Unit |
|---------------------------|-----------|---------|------|
| Output Voltage            | $V_{CC}$  | -50     | V    |
| Input Voltage             | $V_{IN}$  | -40     | V    |
|                           |           | 10      | V    |
| Output Current            | $I_C$     | -30     | mA   |
|                           | $I_O$     | -100    | mA   |
| Power Dissipation         | $P_C$     | 200     | mW   |
| Junction Temperature      | $T_j$     | 150     |      |
| Storage Temperature Range | $T_{stg}$ | -55 150 |      |

| Parameter              | Symbol       | Test Conditions                          | Min  | Typ  | Max   | Unit       |
|------------------------|--------------|------------------------------------------|------|------|-------|------------|
| Input Voltage(OFF)     | $V_{I(off)}$ | $V_{CC}=-5.0V$ $I_O=-100$ A              |      |      | -0.5  | V          |
| Input Voltage(ON)      | $V_{I(on)}$  | $V_O=-0.2V$ $I_O=-5.0mA$                 | -3.0 |      |       | V          |
| Output Voltage         | $V_{O(on)}$  | $I_O=-10mA$ $I_I=-0.5mA$                 |      | -0.1 | -0.3  | V          |
| Input Current          | $I_I$        | $V_I=-5.0V$                              |      |      | -0.36 | mA         |
| Output Cut-off Current | $I_{O(off)}$ | $V_{CC}=-50V$ $V_I=0V$                   |      |      | -0.5  | $\mu A$    |
| DC Current Gain        | $G_I$        | $V_O=-5.0V$ $I_O=-5.0mA$                 | 56   |      |       |            |
| Transition Frequency   | $f_T$        | $V_{CE}=-10V$ $I_E=5.0$ mA<br>$f=100MHz$ |      | 250  |       | MHz        |
| Resistance1            | $R_1$        |                                          | 15.4 | 22   | 28.6  | K $\Omega$ |
| Resistance Ratio       | $R_2/R_1$    |                                          | 0.8  | 1    | 1.2   |            |



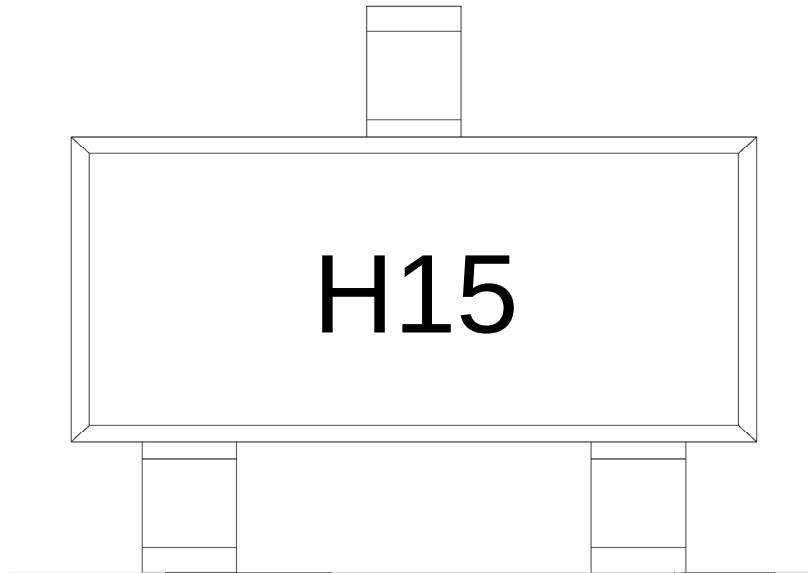
SOT-23

单位: mm



| Symbol | Dimensions In Millimeters |      | Symbol | Dimensions In Millimeters |     |
|--------|---------------------------|------|--------|---------------------------|-----|
|        | Min                       | Max  |        | Min                       | Max |
| L      | 2.2                       | 2.7  | C      | 1.30Max                   |     |
| L1     | 0.45                      | 0.65 | C1     | 0.35                      |     |

|    |      |      |   |         |      |
|----|------|------|---|---------|------|
| A  | 1.15 | 1.50 | c | 0.05    | 0.20 |
| B  | 2.70 | 2.90 | K | 0       | 0.10 |
| E  | 1.70 | 2.10 | M | 0.20MIN |      |
| E1 | 0.85 | 1.05 | P | 7°      |      |
| b  | 0.35 | 0.55 |   |         |      |



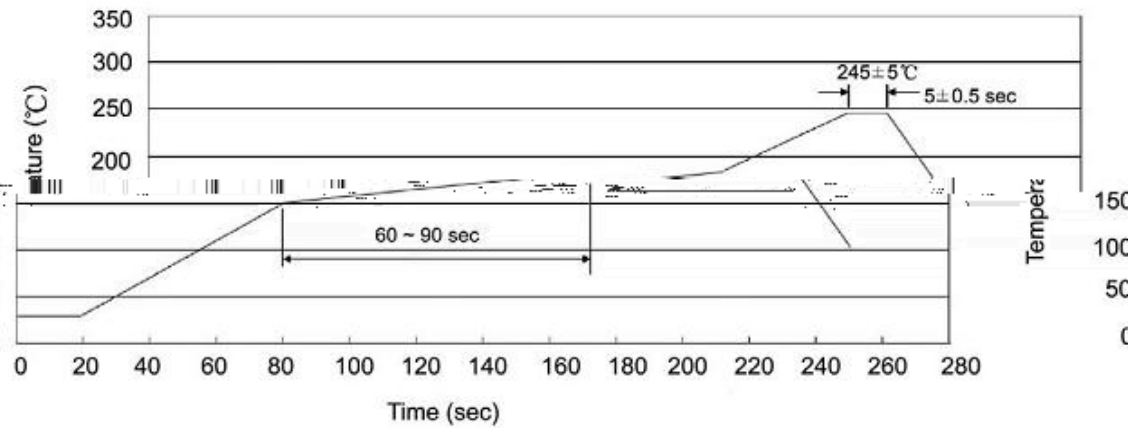
15

Note:

Company Code

15

Product Type Code



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , 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

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-23               | 3,000              | 10                      | 30,000                 | 6                            | 180,000                | 7 ×8                                    | 180×120×180 | 390×385×205 |