

### / Descriptions

SOT-323          NPN          Silicon NPN transistor in a SOT-323 Plastic Package.

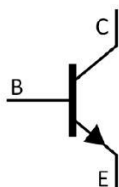
### / Features

Small feedback capacitance, low noise figure, high  $f_T$ .

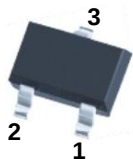
### / Applications

2GHz  
Low noise small signal amplifiers up to 2 GHz.

### / Equivalent Circuit



### / Pinning



PIN1    Emitter          PIN 2    Base          PIN 3    Collector

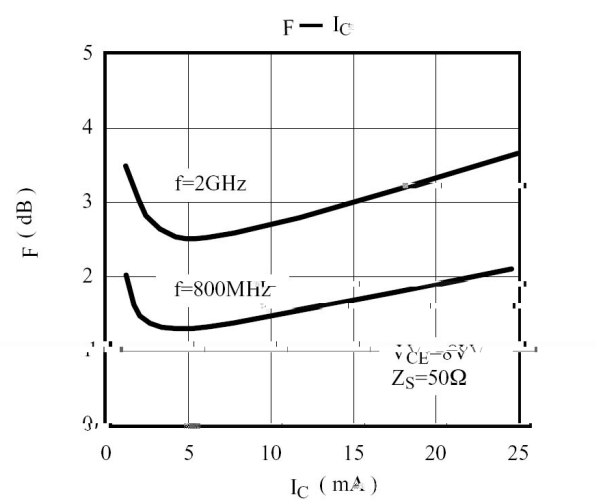
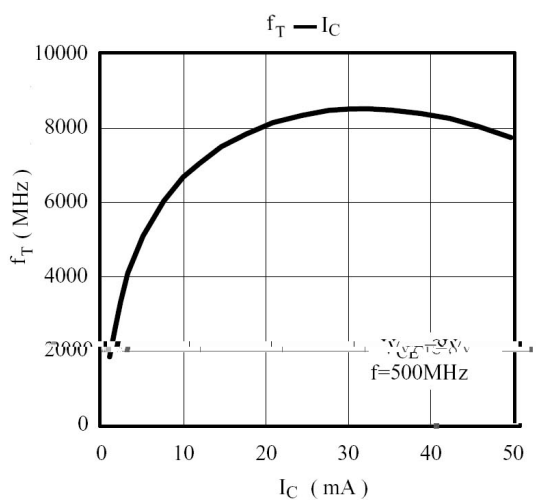
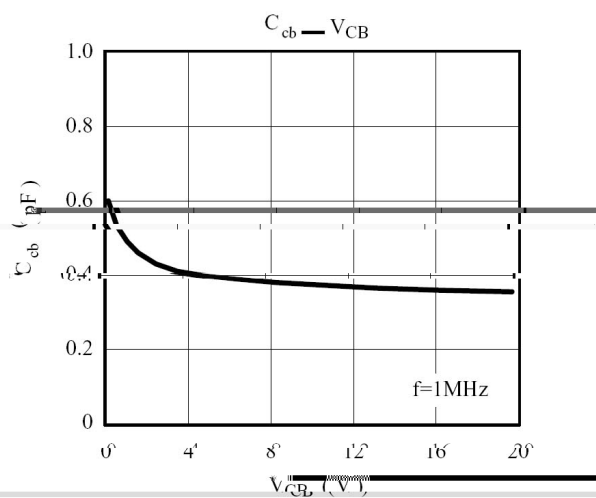
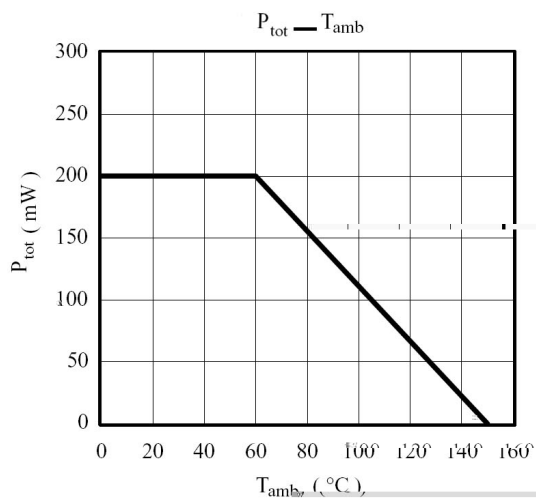
### / Marking

|                |        |
|----------------|--------|
| $h_{FE}$ Range | 65~150 |
| Marking        | HWV2   |

| Parameter                      | Symbol    | Rating  | Unit |
|--------------------------------|-----------|---------|------|
| Collector to Base Voltage      | $V_{CBO}$ | 20      | V    |
| Collector to Emitter Voltage   | $V_{CEO}$ | 10      | V    |
| Emitter to Base Voltage        | $V_{EBO}$ | 2.5     | V    |
| Collector Current - Continuous | $I_C$     | 50      | mA   |
| Collector 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 |
|--------------------------------|--------|-----------------|-----|-----|-----|------|
| Collector to Emitter Breakdown |        |                 |     |     |     |      |

**/ Electrical Characteristic Curve**



/ Package Dimensions

SOT-323

单位: mm

