

S9015 PNP Transistors

General description

SOT-23 Plastic-Encapsulate Transistors

SOT-23

FEATURES

- Complementary to S9014
- Power Dissipation of 200mW
- High Stability and High Reliability

MECHANICAL DATA

- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any

1. BASE
2. EMITTER
3. COLLECTOR



Marking: M6

Maximum Ratings & Thermal Characteristics T_A = 25°C unless otherwise noted

| Parameters | Symbol | Value | Unit |
|---|------------------|----------|------|
| Collector-Base Voltage | V _{CB0} | -50 | V |
| Collector-Emitter Voltage | V _{CEO} | -45 | V |
| Emitter -Base Voltage | V _{EBO} | -5 | V |
| Collector Current-Continuous | I _C | -100 | mA |
| Collector Power Dissipation | P _C | 200 | mW |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature | T _{stg} | -55-+150 | °C |
| Thermal resistance From junction to ambient | R _{θJA} | 625 | °C/W |

Electrical Characteristics T_A = 25°C unless otherwise noted

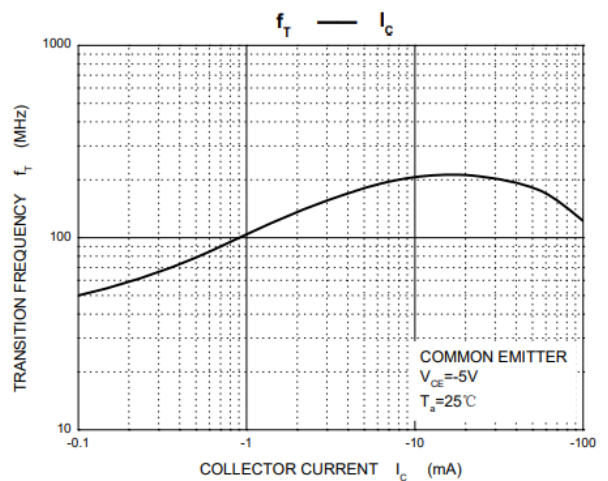
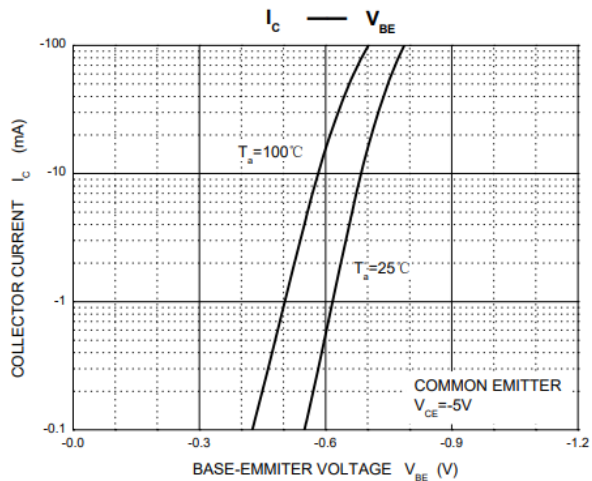
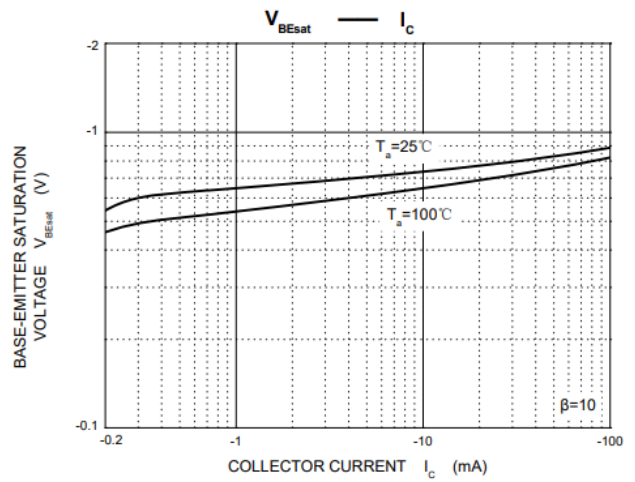
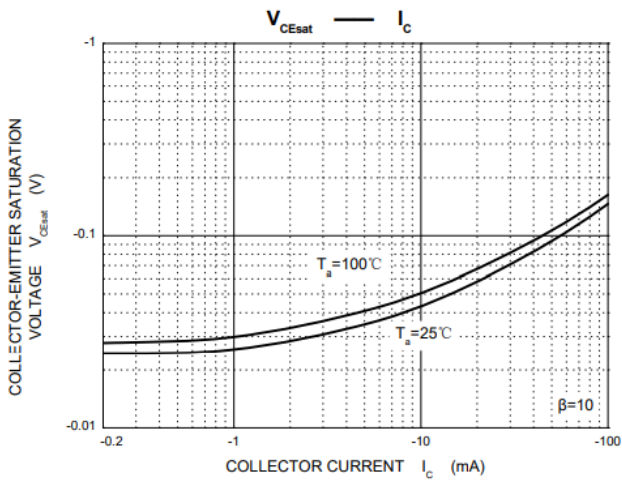
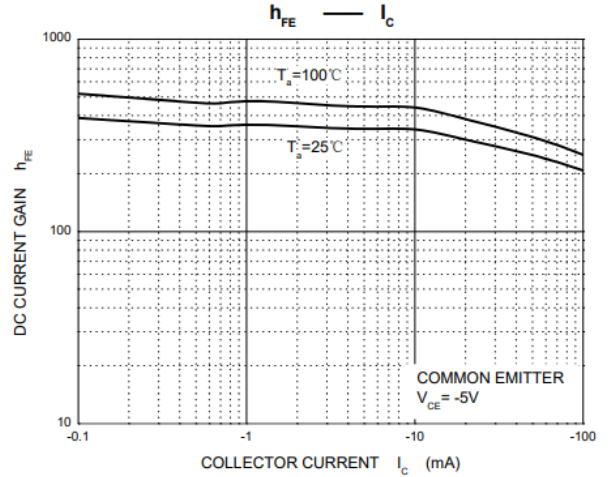
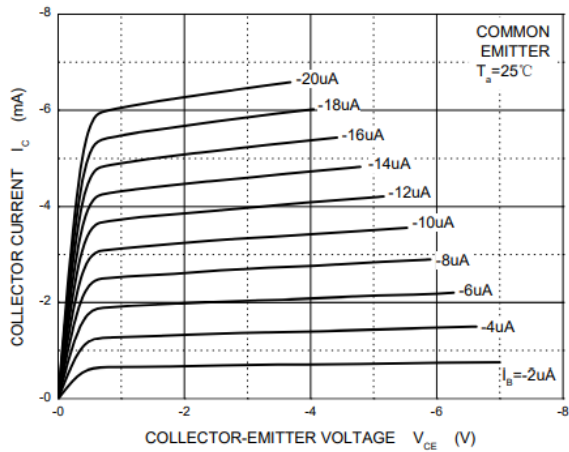
| Parameter | Symbols | Test Condition | Limits | | Unit |
|--------------------------------------|----------------------|--|--------|-------|------|
| | | | Min | Max | |
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C =-100μA, I _E =0 | -50 | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =-0.1mA, I _B =0 | -45 | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =-100μA, I _C =0 | -5 | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =-50V, I _E =0 | | -100 | nA |
| Emitter cut-off current | I _{EBO} | V _{EB} =-5V, I _C =0 | | -100 | nA |
| DC current gain | h _{FE} | V _{CE} =-5V, I _C =-1mA | 200 | 1000 | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =-100mA, I _B =-10mA | | -0.30 | V |
| Base -emitter saturation voltage | V _{BE(sat)} | I _C =-100mA, I _B =-10mA | | -1.00 | V |
| Transition frequency | f _T | V _{CE} =-5V, I _C =-10mA, f=30MHz | 150 | | MHz |

CLASSIFICATION OF h_{FE}(1)

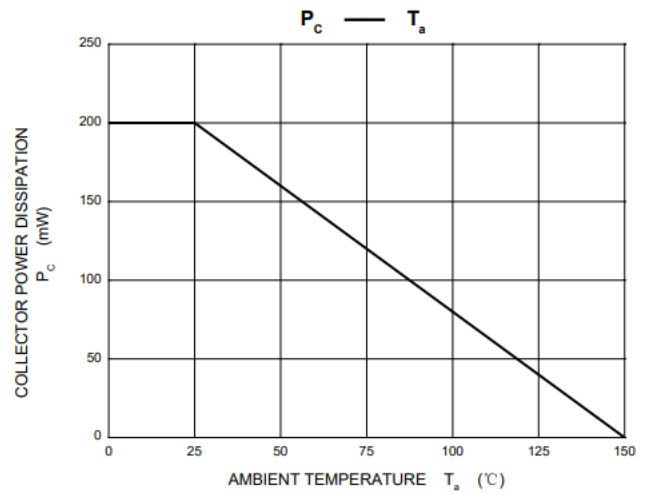
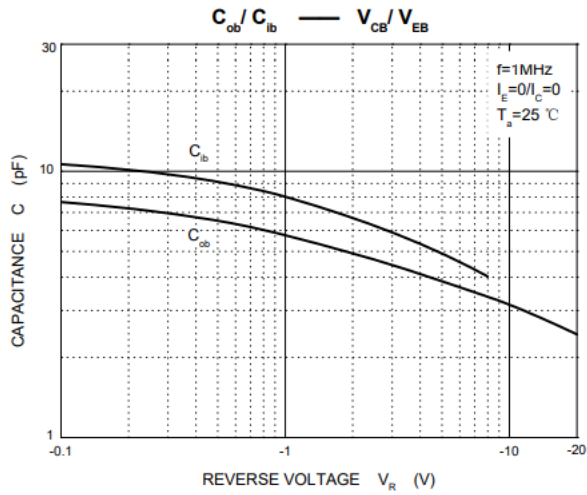
| RANK | L | H |
|-------|---------|----------|
| RANGE | 200-450 | 450-1000 |

Typical characteristics

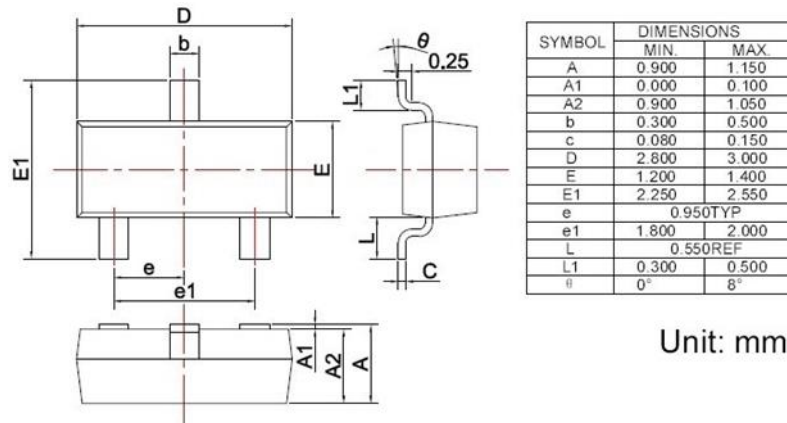
Static Characteristic



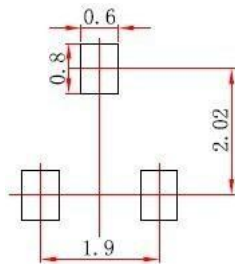
S9015



SOT-23 PACKAGE OUTLINE Plastic surface mounted package



Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs



- Note:
1. Controlling dimension: in millimeters.
 2. General tolerance: $\pm 0.05\text{mm}$.
 3. The pad layout is for reference purposes only.

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