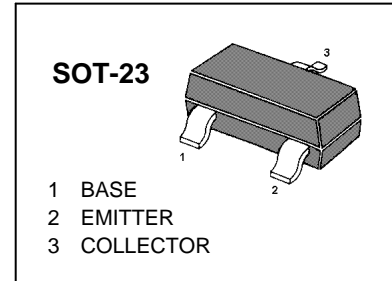


FEATURES

Complementary to S9015

MARKING: J6

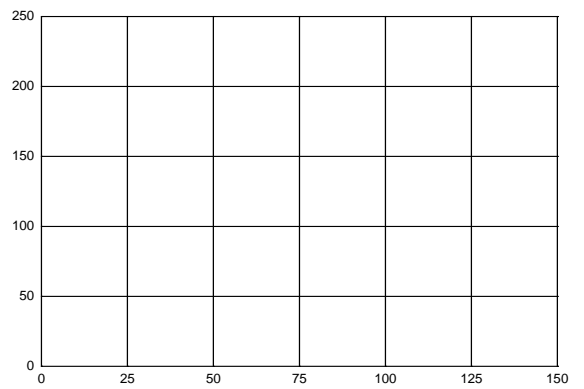
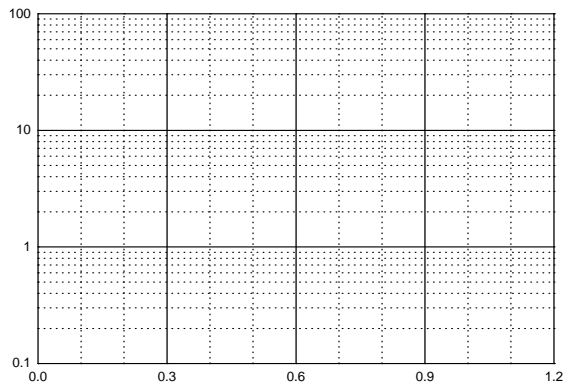
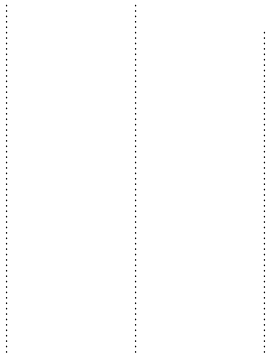

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

| Symbol | Parameter | value | units |
|------------------|------------------------------|---------|-------|
| V _{CBO} | Collector-Base Voltage | 50 | V |
| V _{CEO} | Collector-Emitter Voltage | 45 | V |
| V _{EBO} | Emitter-Base Voltage | 5 | V |
| I _C | Collector Current-Continuous | 0.1 | A |
| P _C | Collector Power Dissipation | 0.2 | W |
| T _J | Junction Temperature | 150 | |
| T _{STG} | Storage Temperature | -55-150 | |

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|--------------------------------------|----------------------|---|-----|-----|-----|------|
| 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 | | | 0.1 | μA |
| Collector cut-off current | I _{CEO} | V _{CE} =35V, I _B =0 | | | 0.1 | μA |
| Emitter cut-off current | I _{EBO} | V _{EB} = 3V, I _C =0 | | | 0.1 | μA |
| DC current gain | h _{FE} | V _{CE} =5V, I _C = 1mA | 200 | | 450 | |
| Collector-emitter saturation voltage | V _{CE(Sat)} | I _C =100 mA, I _B = 5mA | | | 0.3 | V |
| Base-emitter saturation voltage | V _{BE(Sat)} | I _C =100 mA, I _B = 5mA | | | 1 | V |
| Transition frequency | f _T | V _{CE} =5V, I _C = 10mA f=30MHz | 150 | | | MHz |

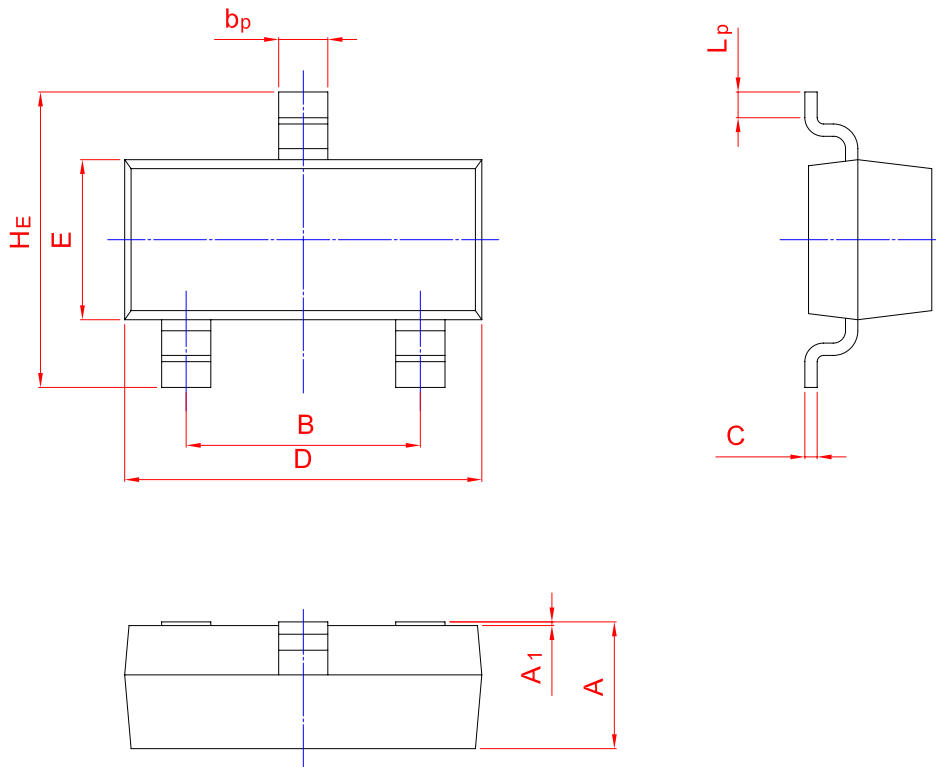
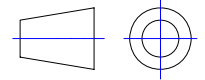
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



| UNIT | A | B | b_p | C | D | E | H_E | A_1 | L_p |
|------|------|------|-------|------|------|------|-------|-------|-------|
| mm | 1.40 | 2.04 | 0.50 | 0.19 | 3.10 | 1.65 | 3.00 | 0.100 | 0.50 |
| | 0.95 | 1.78 | 0.35 | 0.08 | 2.70 | 1.20 | 2.20 | 0.013 | 0.20 |