

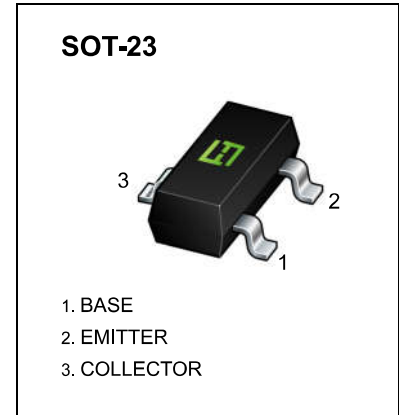
FEATURES

- Driver Transistors

MARKING:2H

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

| Symbol | Parameter | Value | Unit |
|-----------------------------------|--|----------|------|
| V _{CBO} | Collector-Base Voltage | -60 | V |
| V _{CEO} | Collector-Emitter Voltage | -60 | V |
| V _{EBO} | Emitter-Base Voltage | -4 | V |
| I _C | Collector Current | -500 | mA |
| P _C | Collector Power Dissipation | 225 | mW |
| R _{θJA} | Thermal Resistance From Junction To Ambient | 556 | °C/W |
| T _J , T _{stg} | Operation Junction and Storage Temperature Range | -55~+150 | °C |

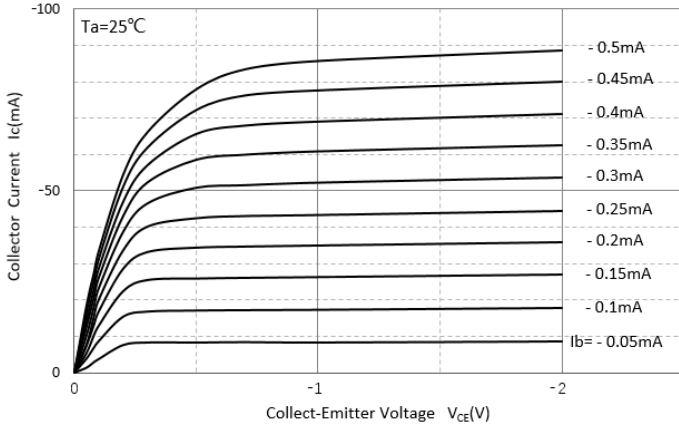


ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

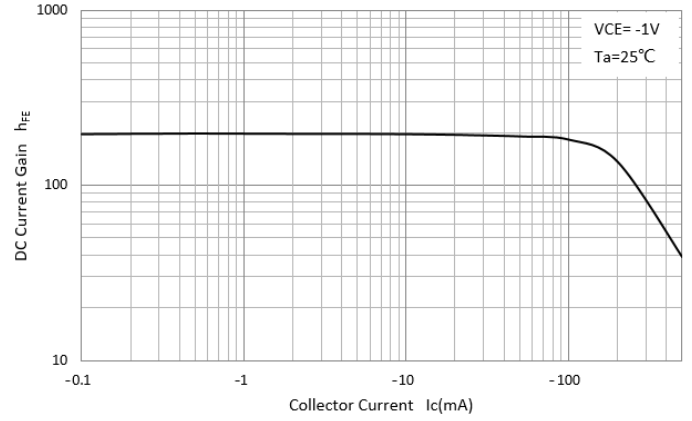
| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|-----|-----|-------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C =-100μA, I _E =0 | -60 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =-1mA, I _B =0 | -60 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =-100μA, I _C =0 | -4 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =-60V, I _E =0 | | | -0.1 | μA |
| Collector cut-off current | I _{CEO} | V _{CE} =-60V, I _B =0 | | | -0.1 | μA |
| DC current gain | h _{FE(1)} | V _{CE} =-1V, I _C =-10mA | 100 | | 400 | |
| | h _{FE(2)} | V _{CE} =-1V, I _C =-100mA | 100 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =-100mA, I _B =-10mA | | | -0.25 | V |
| Base-emitter voltage | V _{BE} | V _{CE} =-1V, I _C =-100mA | | | -1.2 | V |
| Transition frequency | f _T | V _{CE} =-1V, I _C =-100mA, f=100MHz | 50 | | | MHz |

Characteristics (Typical)

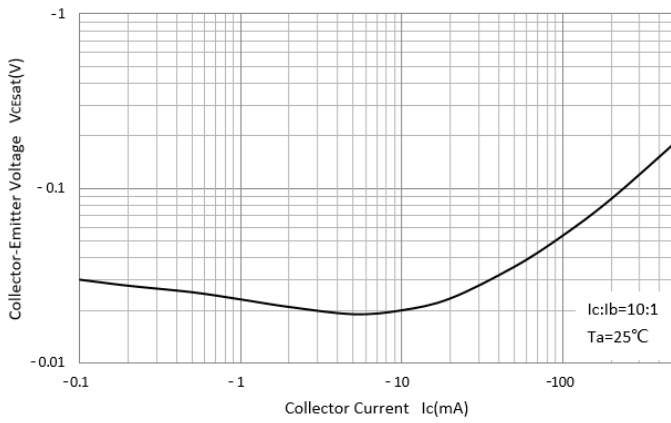
Static Characteristic



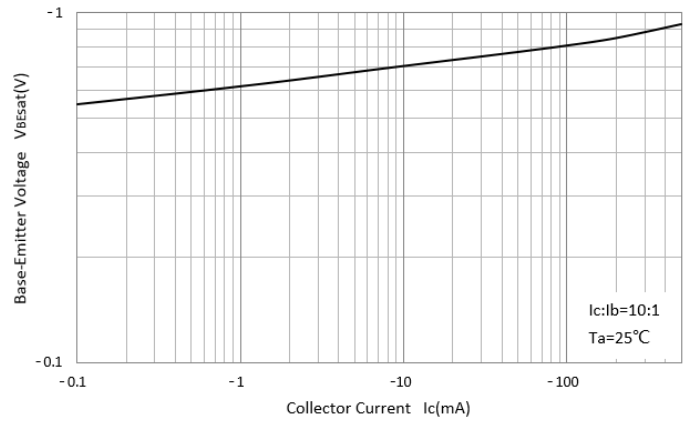
DC Current Gain



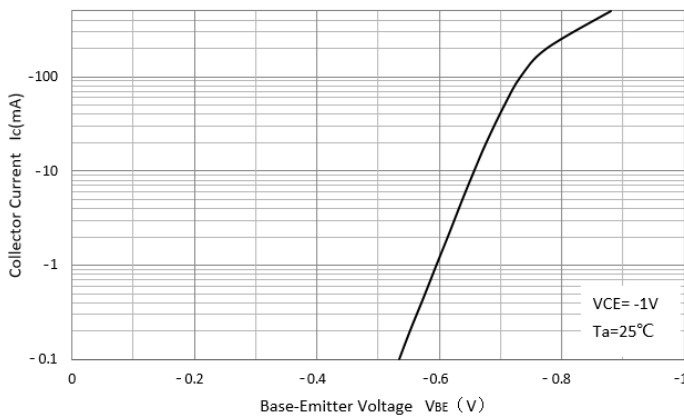
Collector-Emmitter Saturation Voltage



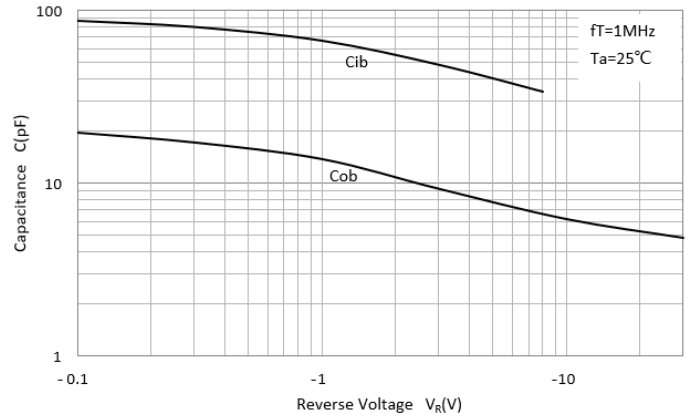
Base-Emmitter Saturation Voltage



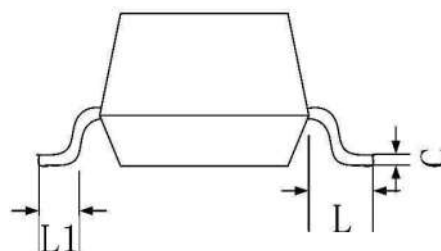
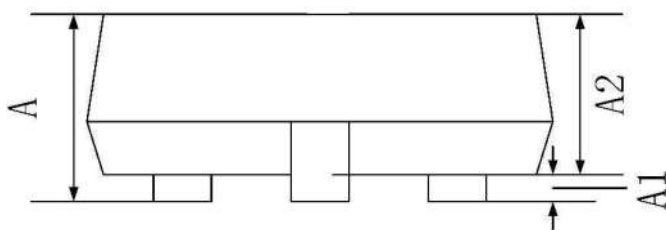
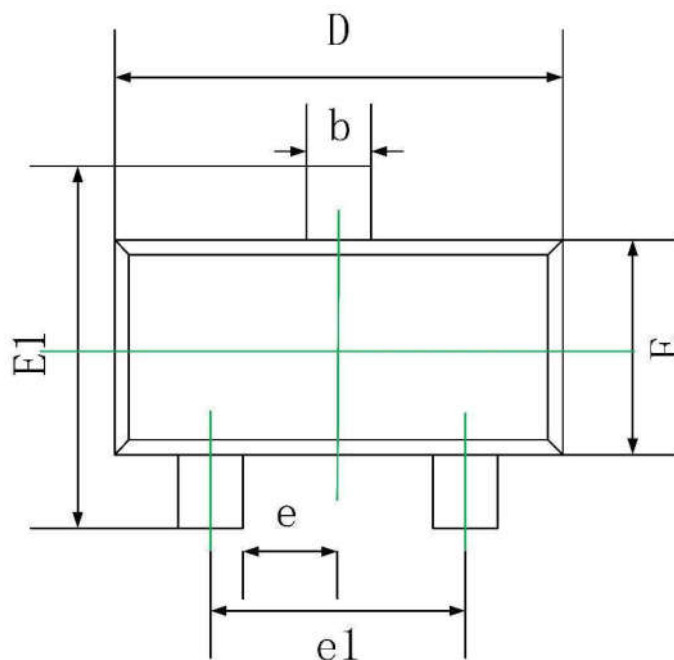
Base-Emmitter On Voltage



$C_{ob}/C_{ib}-V_{CB}/V_{EB}$



SOT-23 Package Information



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min. | Max. | Min. | Max. |
| A | 0.900 | 1.150 | 0.035 | 0.045 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| c | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 2.800 | 3.000 | 0.110 | 0.118 |
| E | 1.200 | 1.400 | 0.047 | 0.055 |
| E1 | 2.250 | 2.550 | 0.089 | 0.100 |
| e | 0.950 TYP. | | 0.037 TYP. | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.550 REF. | | 0.022 REF. | |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 |

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