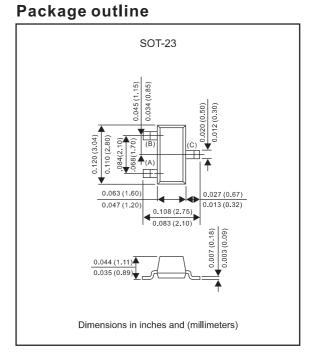
SS8550

General Purpose Transistors PNP Silicon

Features

- High current capacity in compact package Ic = -1.5A
- Epitaxial planar type
- Pb-free package is available
- Suffix "-H" indicates Halogen-free part



Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, SOT-23
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Mounting Position : Any
- Weight : Approximated 0.008 gram

Maximum ratings (AT T_A=25°C unless otherwise noted)

| PARAMETER | Symbol | Value | UNIT |
|------------------------------|------------------|--------|------|
| Collector-base voltage | V _{CBO} | -40 | V |
| Collector-emitter voltage | V _{CEO} | -25 | V |
| Emitter-base voltage | V _{EBO} | -5.0 | V |
| Collector current-continuoun | I _c | - 1500 | mAdc |

Thermal characteristics

| PARAMETER | Symbol | MIN. | TYP. | MAX. | UNIT | | |
|--------------------------------------|-----------------------------|------------------|------|------|------|-------|--|
| Total device dissipation FR-5 board | $T_A = 25^{\circ}C$ | P _D | | | 225 | mW | |
| (1) | Derate above 25° C | | | | 1.8 | mW/°C | |
| Thermal resistance | Junction to ambient | R _{eja} | | | 556 | °C/W | |
| Total device dissipation alumina | $T_A = 25^{\circ}C$ | P _D | | | 300 | mW | |
| substrate(2) | Derate above 25° C | | | | 2.4 | mW/°C | |
| Thermal resistance | Junction to ambient | R _{eja} | | | 417 | °C/W | |
| Operating junction temperature range | | | -55 | | +150 | °C | |
| Storage temperature range | | | -55 | | +150 | °C | |
| | | | | | | | |

1.FR-5 = 1.0 X 0.75 X0.062 in.

2.Alumina = 0.4 X 0.3 X 0.024 in. 99.5% alumina.



SS8550

Formosa MS

Electrical characteristics (AT T_A=25°C unless otherwise noted)

Off characteristics

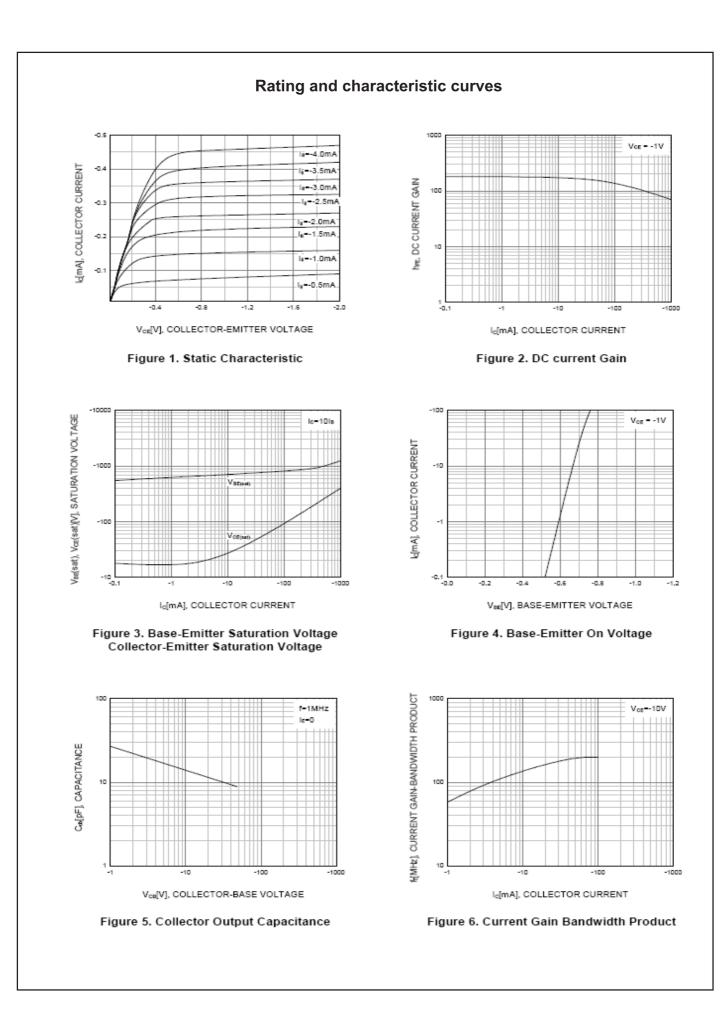
| PARAMETER | CONDITIONS | Symbol | MIN. | TYP. | MAX. | UNIT |
|-------------------------------------|-------------------------|----------------------|------|------|------|------|
| Collector-base breakdown voltage | I _c = -100uA | V _{(BR)CBO} | -40 | | | V |
| Collector-emitter breakdown voltage | I _c = -1.0mA | V _{(BR)CEO} | -25 | | | V |
| Emitter-base breakdown voltage | I _E = -100uA | V _{(BR)EBO} | -5.0 | | | V |
| Collector cutoff current | V _{CB} = -35V | Сво | | | -150 | nA |
| Emitter cutoff current | $V_{EB} = -4.0V$ | I _{EBO} | | | -150 | nA |

On characteristics

| PARAMETER | CONDITIONS | Symbol | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|--|-----------------------|------|------|------|------|
| DC current gain | I _c = -100mA, V _{CE} = -1.0V | h _{FE} *Note | 100 | | 600 | |
| Collector-emitter saturation voltage | I _c = -800mA, I _B = -80mA | V _{CE(sat)} | | | -0.5 | V |

| Note | * | L | Н | J | |
|------|-----|---------|---------|---------|--|
| Note | hfe | 120~200 | 200~350 | 300~400 | |







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SS8550

Pinning information

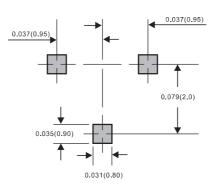
| Pin | Simplified outline | Symbol |
|---|--------------------|-----------|
| PinB Base PinC Collector PinE Emitter | C B B | B O C O E |

Marking

| Type number | Marking code |
|-------------|--------------|
| | Y2 |

Suggested solder pad layout

SOT-23



Dimensions in inches and (millimeters)

Reel packing

| PACKAGE | REEL SIZE | REEL (pcs) | COMPONENT SPACING (m/m) | BOX (pcs) | INNER BOX (m/m) | REEL DIA, (m/m) | CARTON SIZE (m/m) | CARTON (pcs) | APPROX. GROSS WEIGHT (kg) |
|---------|-----------|---------------|-------------------------------|--------------|-----------------------|-----------------------|-------------------------|-----------------|---------------------------------|
| SOT-23 | 7" | 3,000 | 4.0 | 30,000 | 183*123*183 | 178 | 382*257*387 | 240,000 | 11.6 |



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