

isc Silicon PNP Power Transistor
2SA1859A
DESCRIPTION

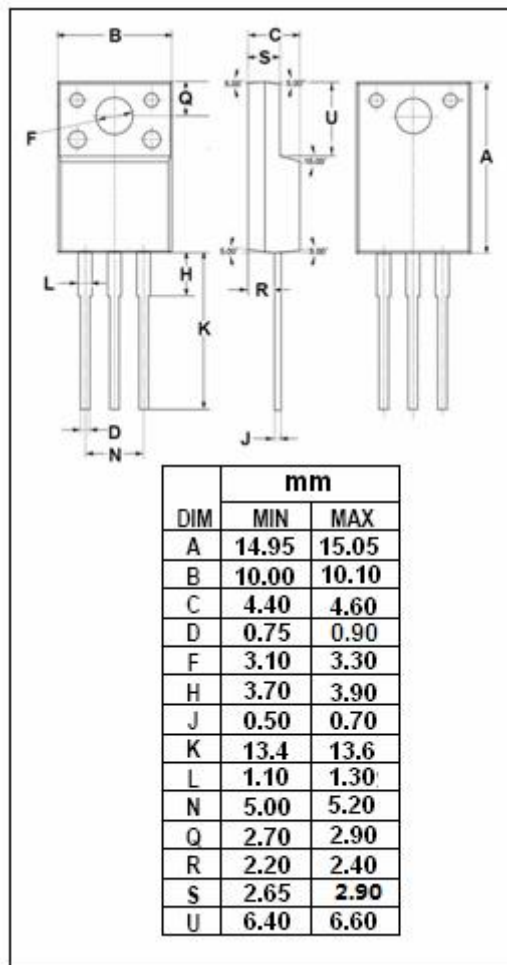
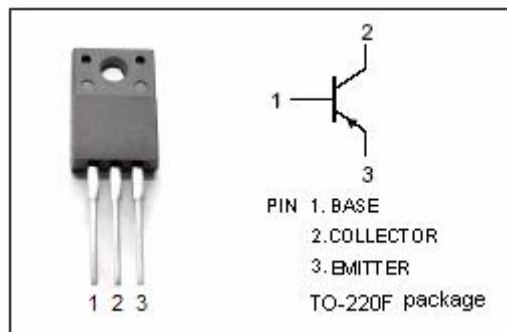
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -180V(\text{Min})$
- Complement to Type 2SC4883A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for audio output driver and TV velocity-modulation applications.

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|---|---------|------------------|
| V_{CBO} | Collector-Base Voltage | -180 | V |
| V_{CEO} | Collector-Emitter Voltage | -180 | V |
| V_{EBO} | Emitter-Base Voltage | -6 | V |
| I_C | Collector Current-Continuous | -2 | A |
| I_B | Base Current-Continuous | -1 | A |
| P_C | Collector Power Dissipation @ $T_C = 25^\circ\text{C}$ | 20 | W |
| T_J | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature | -55~150 | $^\circ\text{C}$ |



isc Silicon PNP Power Transistor**2SA1859A****ELECTRICAL CHARACTERISTICS**T_j=25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|---|------|------|------|------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage | I _C = -10mA; I _B = 0 | -180 | | | V |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = -0.7A; I _B = -70mA | | | -1.0 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = -180V ; I _E = 0 | | | -10 | μ A |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = -6V; I _C = 0 | | | -10 | μ A |
| h _{FE} | DC Current Gain | I _C = -0.7A; V _{CE} = -10V | 60 | | 240 | |
| C _{OB} | Output Capacitance | I _E = 0; V _{CB} = -10V; f= 1MHz | | 30 | | pF |
| f _T | Current-Gain—Bandwidth Product | I _E = 0.7A; V _{CE} = -12V | | 60 | | MHz |

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