

isc Silicon PNP Power Transistor

2SA2223

DESCRIPTION

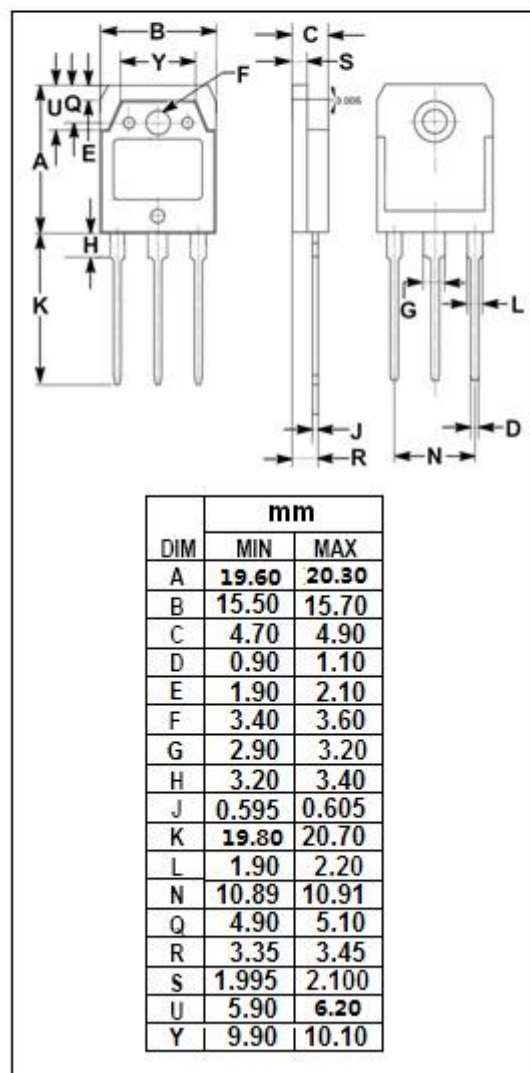
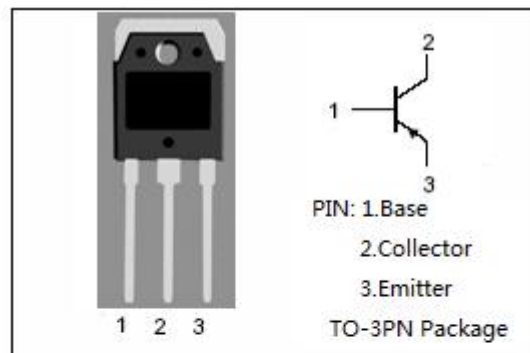
- High frequency multi emitter transistor
- Small package(TO-3P)
- High power handling capacity ,160W
- Complement to Type 2SC6145
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

- Signal transistors for audio amplifiers
- Audio market

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|--|---------|-------------|
| V_{CBO} | Collector-Base Voltage | -230 | V |
| V_{CEO} | Collector-Emitter Voltage | -230 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current-Continuous | -15 | A |
| I_B | Base Current-Continuous | -4.0 | A |
| P_C | Collector Power Dissipation @ $T_C=25^{\circ}C$ | 160 | W |
| T_J | Junction Temperature | 150 | $^{\circ}C$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^{\circ}C$ |



isc Silicon PNP Power Transistor**2SA2223****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|--|------|------|------|------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage | I _C = -25mA; I _B = 0 | -230 | | | V |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = -5A; I _B = -0.5A | | | -0.5 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = -230V; I _E = 0 | | | -10 | μ A |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = -5V; I _C = 0 | | | -10 | μ A |
| h _{FE} | DC Current Gain | I _C = -5A; V _{CE} = -4V | 40 | | 140 | |
| C _{OB} | Output Capacitance | I _E =0; V _{CB} = -10V; f= 1.0MHz | | 500 | | pF |
| f _T | Current-Gain—Bandwidth Product | I _C =-2A ; V _{CE} = -12V | | 35 | | MHz |

◆ **h_{FE} Classifications**

| R | O | Y |
|-------|--------|--------|
| 40-80 | 50-100 | 70-140 |

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