

FEATURES

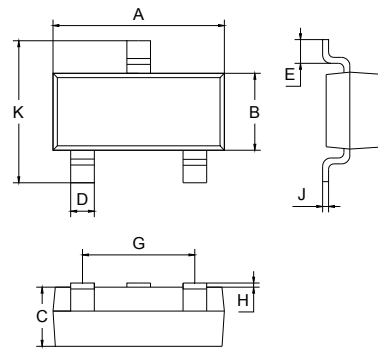
- Low noise: NF=1dB (Typ.), 10 dB(Max)
- Complementary to 2SA1162
- High voltage and high current
- Excellent h_{FE} linearity

APPLICATIONS

- Audio frequency general purpose amplifier applications

ORDERING INFORMATION

| Type No. | Marking | Package |
|----------|-------------|---------|
| 2SC2712 | LO/LY/LG/LL | SOT-23 |



| SOT-23 | | |
|----------------------|-------------|------|
| Dim | Min | Max |
| A | 2.70 | 3.10 |
| B | 1.10 | 1.50 |
| C | 1.0 Typical | |
| D | 0.4 Typical | |
| E | 0.35 | 0.48 |
| G | 1.80 | 2.00 |
| H | 0.02 | 0.1 |
| J | 0.1 Typical | |
| K | 2.20 | 2.60 |
| All Dimensions in mm | | |

SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Symbol | Parameter | Value | Units |
|----------------|----------------------------------|-------------|-------|
| V_{CBO} | Collector-Base Voltage | 60 | V |
| V_{CEO} | Collector-Emitter Voltage | 50 | V |
| V_{EBO} | Emitter-Base Voltage | 5 | V |
| I_C | Collector Current -Continuous | 150 | mA |
| I_B | Base current | 30 | mA |
| P_C | Collector Dissipation | 150 | mW |
| T_j, T_{stg} | Junction and Storage Temperature | -55 to +125 | °C |

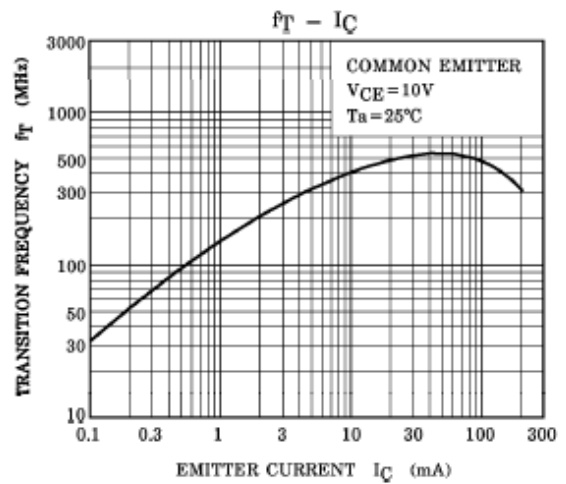
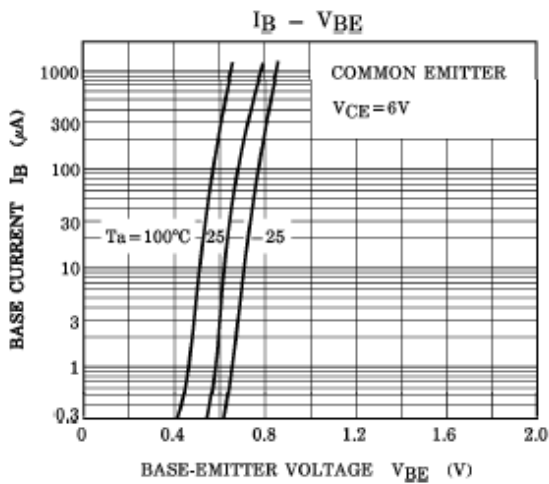
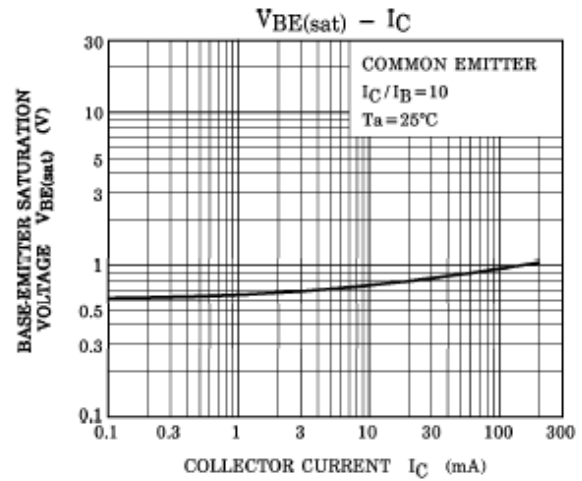
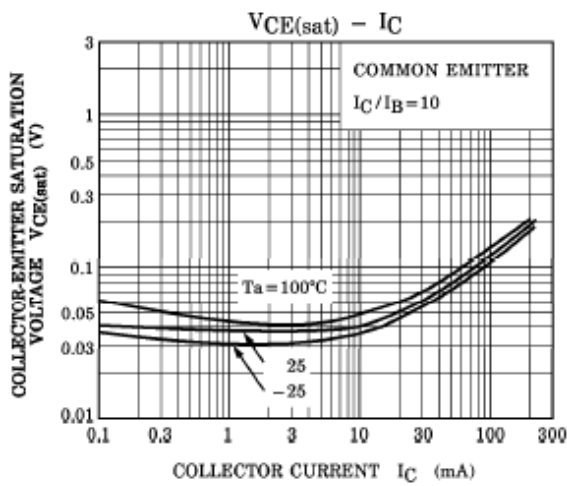
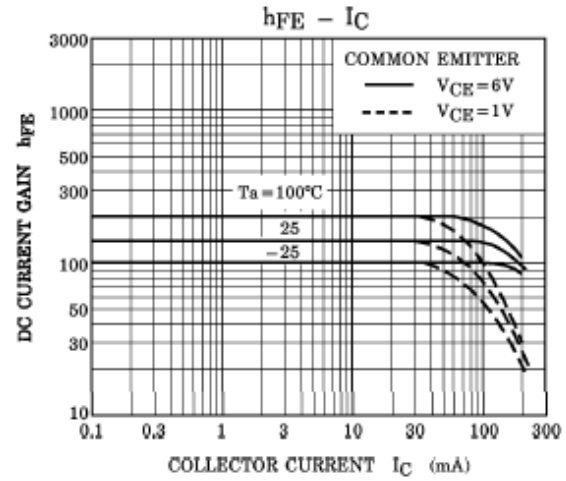
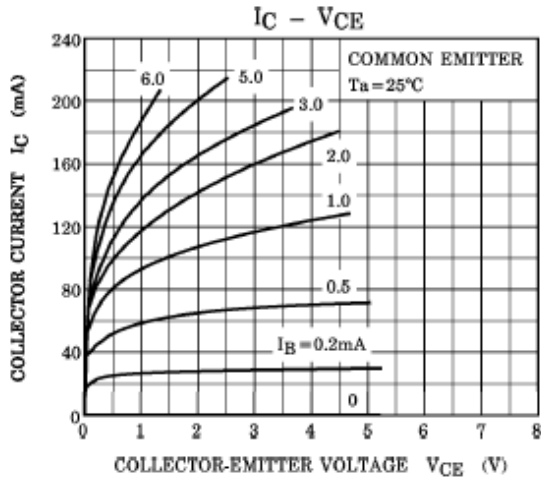
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|--------------------------------------|---------------|--------------------------------|-----|-----|------|---------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C=100\mu A, I_E=0$ | 60 | | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C=0.1mA, I_B=0$ | 50 | | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E=100\mu A, I_C=0$ | 5 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=60V, I_E=0$ | | | 0.1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=5V, I_C=0$ | | | 0.1 | μA |
| DC current gain | h_{FE} | $V_{CE}=6V, I_C=2mA$ | 70 | | 700 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=100mA, I_B=10mA$ | | 0.1 | 0.25 | V |
| Transition frequency | f_T | $V_{CE}=10V, I_C=1mA$ | 80 | | | MHz |
| Output capacitance | C_{ob} | $V_{CB}=10V, I_E=0, f=1MHz$ | | 2.0 | 3.5 | pF |
| Noise Figure | NF | $V_{CE}=6V, I_C=0.1mA, f=1kHz$ | | 1.0 | 10 | dB |

CLASSIFICATION OF $h_{FE(1)}$

| Rank | O | Y | GR | BL |
|---------|--------|---------|---------|---------|
| Range | 70-140 | 120-240 | 200-400 | 350-700 |
| Marking | LO | LY | LG | LL |

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



| Device | Package | Shipping |
|---------|---------|----------------|
| 2SC2712 | SOT-23 | 3000/Tape&Reel |

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