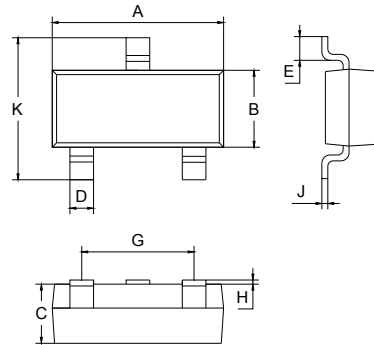


FEATURES

- Low noise and high gain.
NF=1.1dB TYP., $G_s=11$ dB TYP.
@ $V_{CE}=10V, I_C=7mA, f=1.0GHz$
- High power gain. MAG=13dB TYP.
@ $V_{CE}=10V, I_C=20mA, f=1.0GHz$.

APPLICATIONS

- Designed for low noise amplifier at VHF,UHF and CATV band.



| 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 | | |

ORDERING INFORMATION

SOT-23

| Type No. | Marking | Package Code |
|----------|-------------|--------------|
| 2SC3356 | R23/R24/R25 | SOT-23 |

MAXIMUM RATING @ $T_a=25^\circ C$ unless otherwise specified

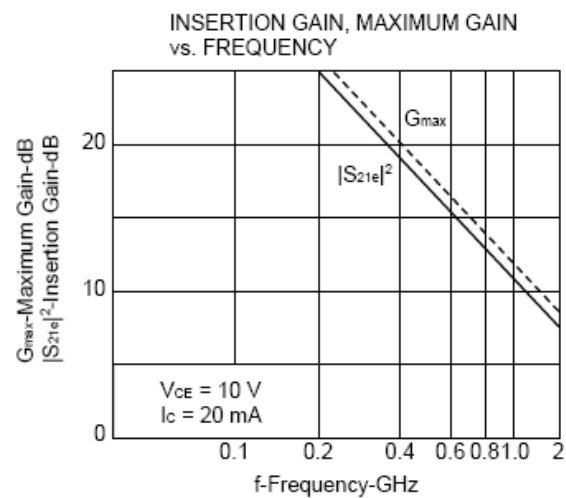
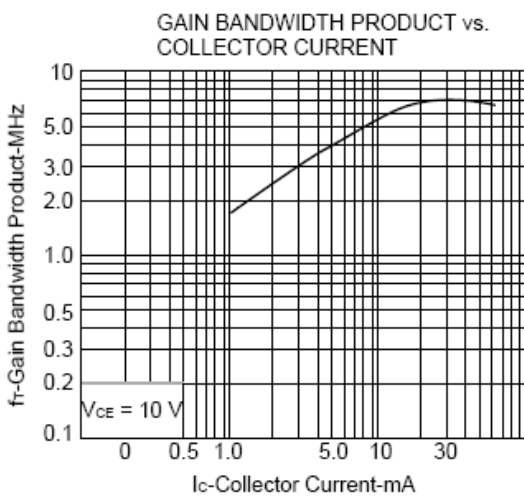
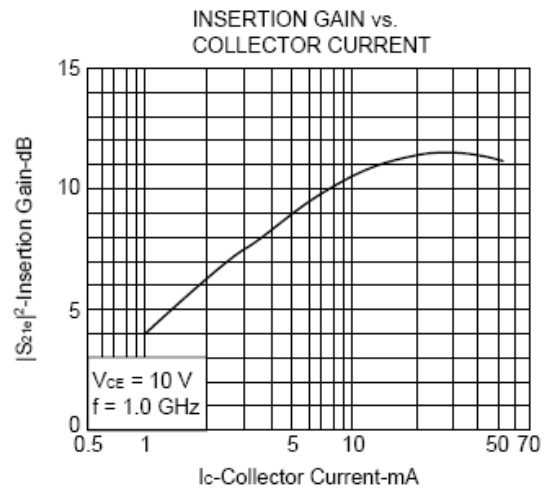
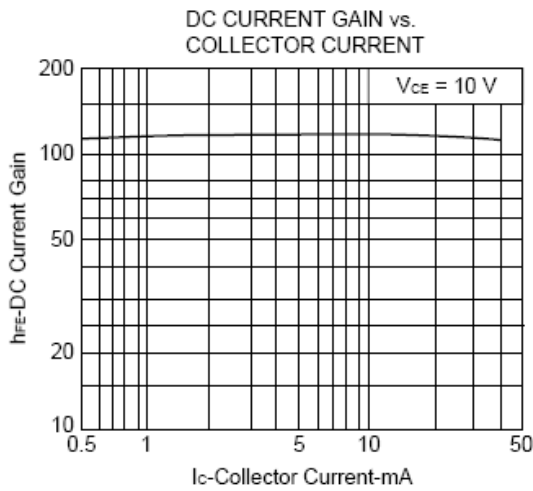
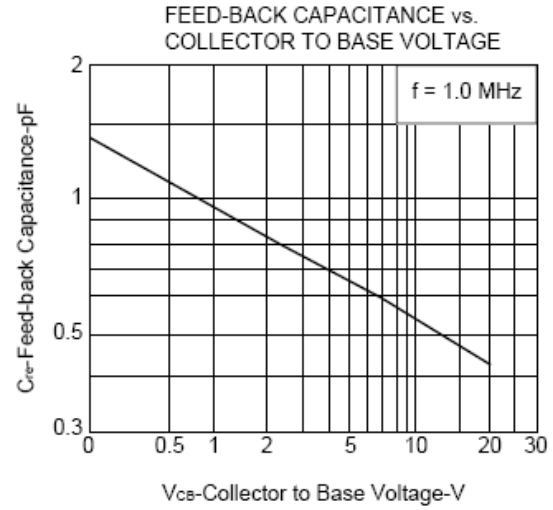
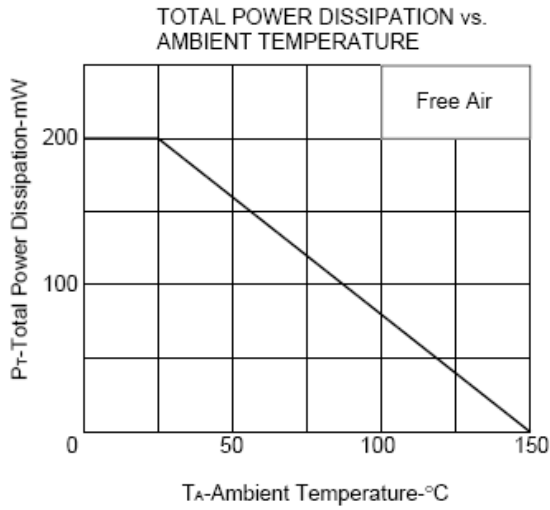
| Symbol | Parameter | Value | Units |
|----------------|----------------------------------|-------------|------------|
| V_{CBO} | Collector-Base Voltage | 20 | V |
| V_{CEO} | Collector-Emitter Voltage | 12 | V |
| V_{EBO} | Emitter-Base Voltage | 3 | V |
| I_C | Collector Current -Continuous | 100 | mA |
| P_C | Collector Dissipation | 200 | mW |
| T_j, T_{stg} | Junction and Storage Temperature | -65 to +150 | $^\circ C$ |

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ C$ unless otherwise specified

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|-------------------------------------|---------------|--------------------------------|-----|------|-----|---------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C=10\mu A, I_E=0$ | 20 | | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C=1mA, I_B=0$ | 12 | | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E=10\mu A, I_C=0$ | 3 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=10V, I_E=0$ | | | 1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=1V, I_C=0$ | | | 1 | μA |
| DC current gain | h_{FE} | $V_{CE}=10V, I_C=20mA$ | 50 | 120 | 300 | |
| Transition frequency | f_T | $V_{CE}=10V, I_C=20mA$ | | 7 | | GHz |
| Insertion power gain | $ S_{21e} ^2$ | $V_{CE}=10V, I_C=20mA, f=1GHz$ | | 11.5 | | dB |
| Feed-back capacitance | C_{re} | $V_{CB}=10V, I_E=0, f=1MHz$ | | 0.55 | 1.0 | pF |
| Noise Figure | NF | $V_{CE}=10V, I_C=7mA, f=1GHz$ | | 1.1 | 2.0 | dB |

CLASSIFICATION OF h_{FE}

| Rank | Q | R | S |
|---------|--------|--------|---------|
| Range | 50-100 | 80-160 | 125-250 |
| Marking | R23 | R24 | R25 |

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified


| Device | Package | Shipping |
|---------|---------|----------------|
| 2SC3356 | SOT-23 | 3000/Tape&Reel |

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