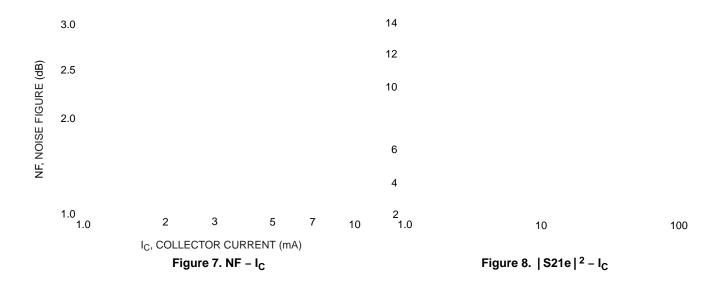


ELECTRICAL CHARACTERISTICS (T_A = 25°C)

| Parameter | Symbol | Test Condition | Min | Тур | Max | Unit |
|--------------------------|------------------|--|-----|-----|-----|------|
| Collector Cutoff Current | I _{CBO} | V _{CB} = 10 V, I _E = 0 A | - | - | 0.1 | μΑ |
| Emitter Cutoff Current | I _{EBO} | V _{EB} = 2 V, I _C = 0 A | Ŧ | - | 1 | μΑ |
| DC Current Gain | hFE | $V_{CE} = 5 \text{ V, } I_{C} = 10 \text{ mA}$ | 100 | - | 160 | |
| Gain-Bandwidth Product | f _T 1 | $V_{CE} = 3 \text{ V, } I_{C} = 5 \text{ mA}$ | 3.0 | 4.5 | _ | GHz |
| | f _T 2 | V _{CE} = 5 V, I | • | - | - | - |

⁰B E 0 . 3 2 0 5 T D (0) T T m 0 g



් 1.0 5 10 100

Figure 9. $|S21e|^2 - I_C$ Figure 10. $P_C - Ta$

| =1 <i>)</i> | | |
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| | | | | | | | | ∠ S22 | l |
|------|-------|--------|-------|-------|-------|-------|-------|--------------|---|
| | | | | | | | | -41.82 | l |
| | | | | | | | | -57.53 | l |
| | | | | | | | | -67.15 | l |
| | | | | | | | | -70.98 | l |
| | | | | | | | | -74.71 | l |
| | | | | | | | | -78.49 | l |
| | | | | | | | | -80.66 | l |
| | | | | | | | | -84.17 | |
| | | | | | | | | -86.76 | l |
| | | | | | | | | -89.61 | |
| 2000 | 0.577 | 167.75 | 1.973 | 49.36 | 0.168 | 61.74 | 0.298 | -91.80 | |
| 2200 | 0.569 | 164.22 | 1.790 | 45.54 | 0.184 | 61.18 | 0.314 | -94.29 | |
| 2400 | 0.564 | 160.80 | 1.659 | 41.46 | 0.201 | 60.23 | 0.330 | -97.05 | |
| 2600 | 0.556 | 157.53 | 1.542 | 37.83 | 0.216 | 60.12 | 0.342 | -99.52 | |
| 2800 | 0.552 | 154.68 | 1.446 | 34.40 | 0.234 | 59.34 | 0.352 | • | |
| | | | | | | | | | |

 V_{CE} = 5 V, I_{C} = 30mA, Z_{O} = 50 Ω

| - 1 | | | | | | | | | |
|-----|------------|-----|---------------|-----|--------------|-----|------|-----|--------------|
| | Freq (MHz) | S11 | ∠ S 11 | S21 | ∠ S21 | S12 | ∠S12 | S22 | ∠ S22 |





