

ELECTRICAL CHARACTERISTICS ($T_{case} = 25^{\circ}C$ unless otherwise stated)

| Parameter | | Test Conditions | | Min. | Typ. | Max. | Unit |
|----------------|--|------------------------|------------------------------|------|------|------|---------|
| I_{CBO} | Collector Cutoff Current | $V_{CB}=15V$ | $I_E=0$ | | | 10 | nA |
| | | | $T_a=150^{\circ}C$ | | | 1 | μA |
| $V_{(BR)CBO}$ | Collector – Base Breakdown Voltage | $I_C=1\mu A$ | $I_E=0$ | 30 | | | V |
| $V_{CEO(sus)}$ | Collector – Emitter Sustaining Voltage | $I_C=3mA$ | $I_B=0$ | 15 | | | |
| $V_{(BR)EBO}$ | Emitter – Base Breakdown Voltage | $I_E=10\mu A$ | $I_C=0$ | 3 | | | |
| $V_{CE(sat)}$ | Collector – Emitter Saturation Voltage | $I_C=10mA$ | $I_B=1mA$ | | | 0.4 | |
| $V_{BE(sat)}$ | Base – Emitter Saturation Voltage | $I_C=10mA$ | $I_B=1mA$ | | | 1.0 | |
| h_{FE} | DC Current Gain | $I_C=3mA$ | $V_{CE} = 1V$ | 20 | 50 | | — |
| f_T | Transition Frequency | $I_C=4mA$ | $V_{CE} = 10V$ $f=100MHz$ | 600 | 900 | | MHz |
| C_{EBO} | Emitter – Base Capacitance | $I_C=0$ | $V_{EB} = 0.5V$ $f=1MHz$ | | | 2 | pF |
| C_{CBO} | Collector – Base Capacitance | $I_E=0$ $f=1MHz$ | $V_{CE} = 0V$ | | 1.8 | 3 | |
| | | | $V_{CE} = 10V$ | | 1 | 1.7 | |
| NF | Noise Figure | $I_E=1mA$ $R_g=400$ | $V_{CE} = 6V$ $f=60MHz$ | | | 6 | dB |
| G_{pe} | Power Gain | $I_C=6mA$ $R_g=50$ | $V_{CE} = 12V$ $f=200MHz$ | 15 | 21 | | |

* Pulsed: Pulse Duration = 300 μs , duty cycle = 1.5%