Transistors 2SC815

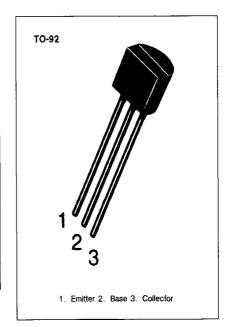


LOW FREQUENCY AMPLIFIER HIGH FREQUENCY OSCILLATOR

- Complement to KSA539
- Collector-Base Voltage V_{CBO} = 60V

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

| Characteristic | Symbol | Rating | Unit |
|---------------------------|------------------|------------------|------|
| Collector-Base Voltage | V _{CBO} | 60 | V |
| Collector-Emitter Voltage | V _{CEO} | 45 | V |
| Emitter-Base Voltage | V _{EBO} | 5 | V |
| Collector Current | Ic | 200 | mA |
| Collector Dissipation | Pc | 400 | mW |
| Junction Temperature | Ti ' | 150 | •c |
| Storage Temperature | Tstg | −55 ~ 150 | °C |



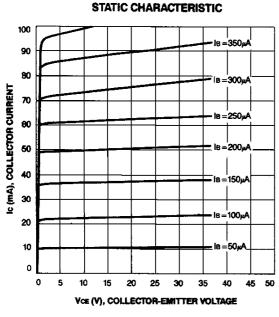
ELECTRICAL CHARACTERISTICS (Ta=25°C)

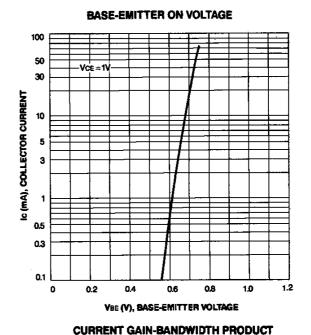
| Characteristic | Symbol | Test Conditions | Min | Тур | Max | Unit |
|--|---|--|----------------------------|----------------------------------|--|---|
| Collector-Base Breakdown Voltage Collector-Emitter Breakdown Voltage Emitter-Base Breakdown Voltage Collector Cut-off Current Emitter Cut-off Current DC Current Gain Base-Emitter On Voltage Collector-Emitter Saturation Voltage Base-Emitter Saturation Voltage Current Gain-Bandwidth Product Output Capacitance | BV _{CBO} BV _{CEO} BV _{EBO} I _{CBO} I _{EBO} h _{FE} V _{BE} (on) V _{CE} (sat) V _{BE} (sat) f _T Cob | $I_{C} = 100 \mu A, I_{E} = 0$ $I_{C} = 10 mA, I_{B} = 0$ $I_{E} = 10 \mu A, I_{C} = 0$ $V_{CB} = 45 V, I_{E} = 0$ $V_{CB} = 3 V, I_{C} = 0$ $V_{CE} = 1 V, I_{C} = 50 mA$ $V_{CE} = 10 V, I_{C} = 10 mA$ $I_{C} = 150 mA, I_{B} = 15 mA$ $I_{C} = 150 mA, I_{B} = 15 mA$ $V_{CE} = 10 V, I_{C} = 10 mA$ $V_{CB} = 10 V, I_{C} = 10 mA$ $V_{CB} = 10 V, I_{E} = 0$ $I_{C} = 10 mA$ | 60 45 5 40 0.6 | 0.65 0.15 0.83 200 4 | 0.1 0.1 400 0.9 0.4 1.1 | V V V μA μA V V V MHz pF |

h_{FE} CLASSIFICATION

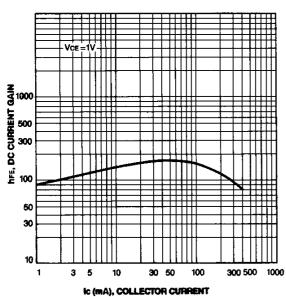
| Classification | R | 0 | Y | G |
|-----------------|-------|--------|---------|---------|
| h _{FE} | 40-80 | 70-140 | 120-240 | 200-400 |

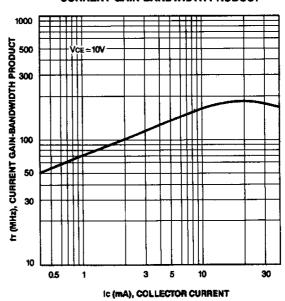






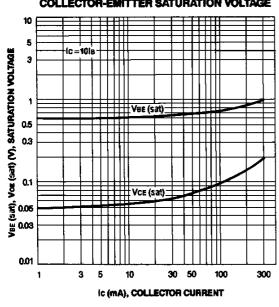


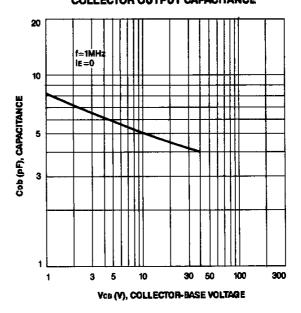




BASE-EMITTER SATURATION VOLTAGE COLLECTOR-EMITTER SATURATION VOLTAGE

COLLECTOR OUTPUT CAPACITANCE





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