

Epoxy meets UL-94 V-0 flammability rating
 Halogen free available upon request by adding suffix "HF"
 Moisture Sensitivity Level 1
 Surface mount package ideally Suited for Automatic
 Insertion
 PNP

: SOT-23
 : Tin plated leads, solderable per
 J-STD-002 and JESD22-B102

| | |
|-----------|----|
| 2SA1037-Q | FQ |
| 2SA1037-R | FR |
| 2SA1037-S | FS |

(Ta=25 unless otherwise noted)

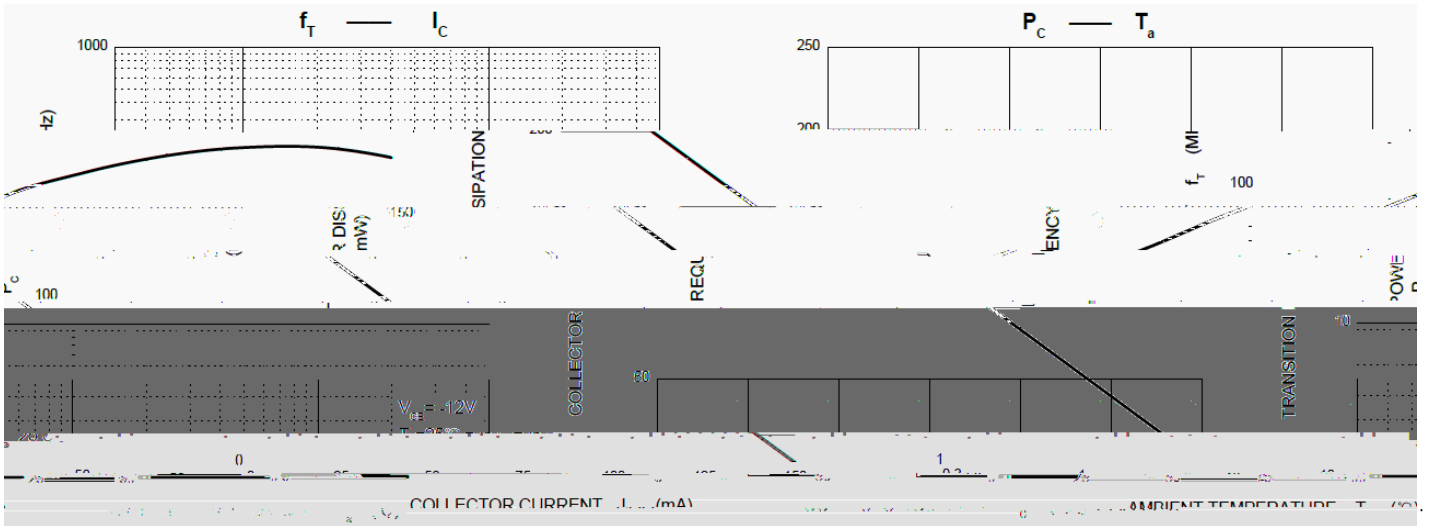
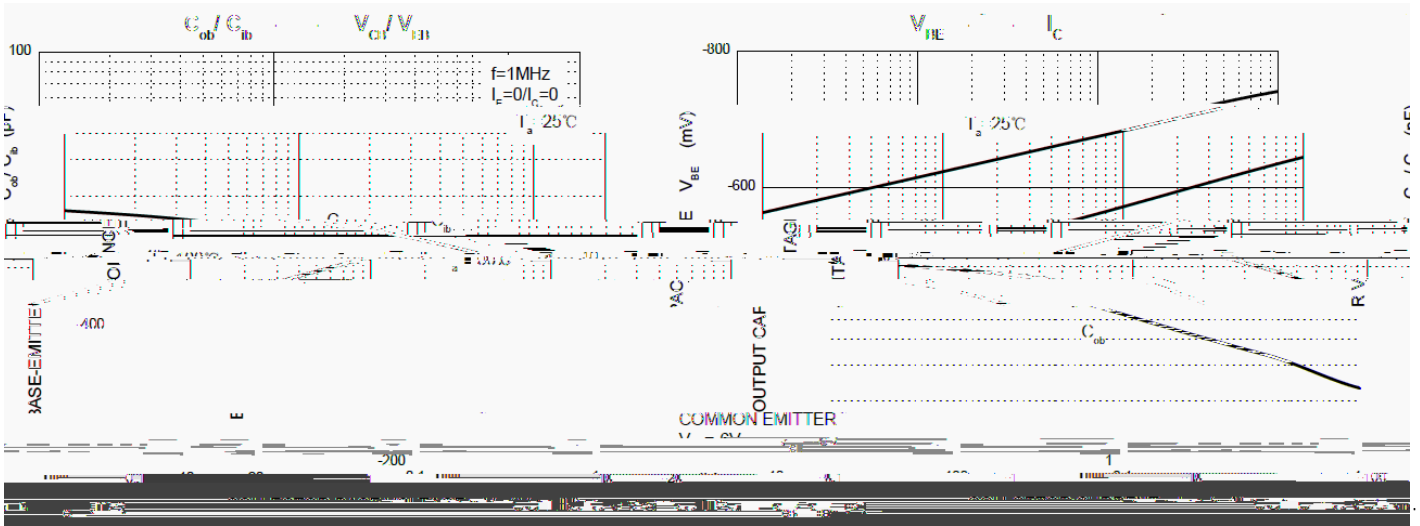
| Parameter | Symbol | Unit | Test Conditions | Value |
|--------------------------------|-----------|------|---------------------------|-------------|
| Collector-Base Voltage | V_{CBO} | V | $I_C = -50\mu A, I_E = 0$ | -60 |
| Collector-Emitter Voltage | V_{CEO} | V | $I_C = -1mA, I_B = 0$ | -50 |
| Emitter-Base Voltage | V_{EBO} | V | $I_E = -50\mu A, I_C = 0$ | -6 |
| Collector Current | I_C | A | | -0.15 |
| Collector Power Dissipation | P_C | mW | | 200 |
| Operating Junction Temperature | T_j | | | 150 |
| Storage Temperature | T_{stg} | | | -55 to +150 |

(Ta=25 unless otherwise noted)

| Parameter | Symbol | Unit | Test Conditions | Value | Value | |
|--------------------------------------|---------------|---------|--|-------|-------|---|
| Collector-base breakdown voltage | V_{CBO} | V | $I_C = -50\mu A, I_E = 0$ | -60 | | |
| Collector-emitter breakdown voltage | V_{CEO} | V | $I_C = -1mA, I_B = 0$ | -50 | | |
| Emitter-base breakdown voltage | V_{EBO} | V | $I_E = -50\mu A, I_C = 0$ | -6 | | |
| Collector-base cut-off current | I_{CBO} | μA | $V_{CB} = -60V, I_E = 0$ | | -0.1 | |
| Emitter-base cut-off current | I_{EBO} | μA | | | | |
| DC current gain | h_{FE} | | $V_{CE} = -6V, I_C = -1mA$ | 120 | 560 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | V | $I_C = -50mA, I_B = -5mA$ | | -0.5 | |
| Transition frequency | f_T | MHz | $V_{CE} = -12V, I_C = -2mA, f = 30MHz$ | | 140 | |
| Collector-base output capacitance | C_{ob} | pF | $V_{CB} = -12V, I_E = 0, f = 1MHz$ | | 4 | 5 |



| | Q | R | S |
|--|---------|---------|---------|
| | 120-270 | 180-390 | 270-560 |





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