

D882 TRANSISTOR (NPN)

SOT-89-3L

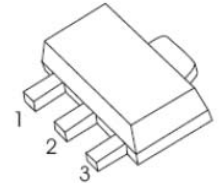
FEATURES

Power dissipation

1. BASE

2. COLLECTOR

3. EMITTER



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|------------------|---|---------|------|
| V _{CB0} | Collector-Base Voltage | 40 | V |
| V _{CE0} | Collector-Emitter Voltage | 30 | V |
| V _{EBO} | Emitter-Base Voltage | 6 | V |
| I _C | Collector Current -Continuous | 3 | A |
| P _C | Collector Power Dissipation | 0.5 | W |
| R _{θJA} | Thermal Resistance from Junction to Ambient | 250 | °C/W |
| T _J | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -55~150 | °C |

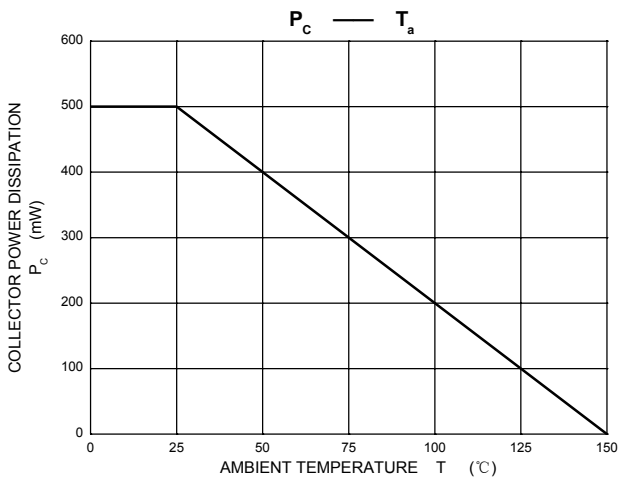
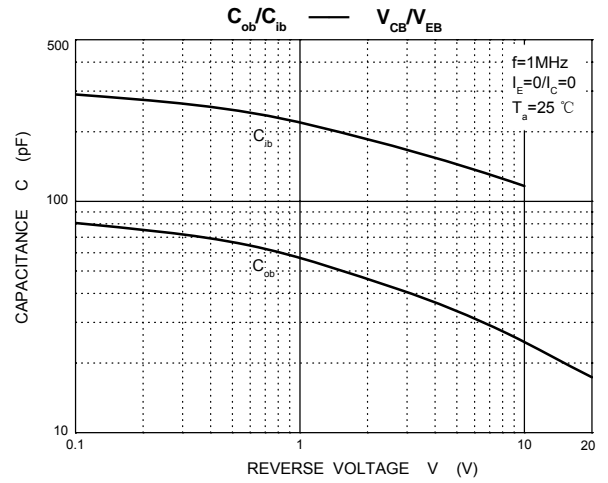
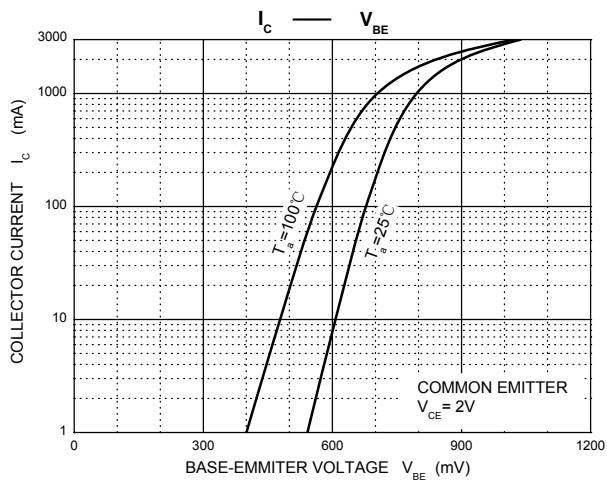
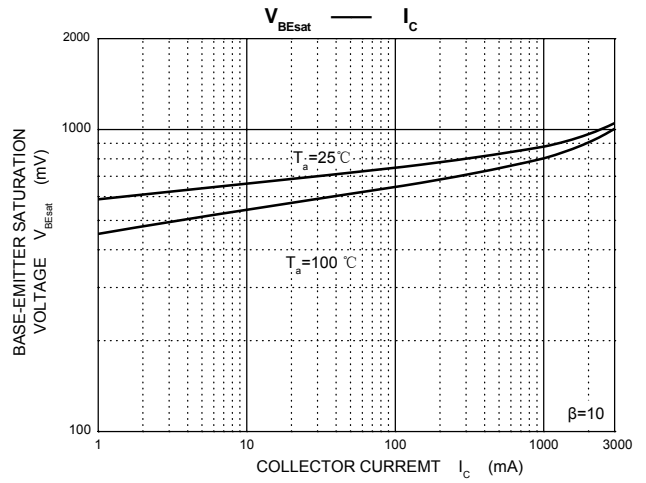
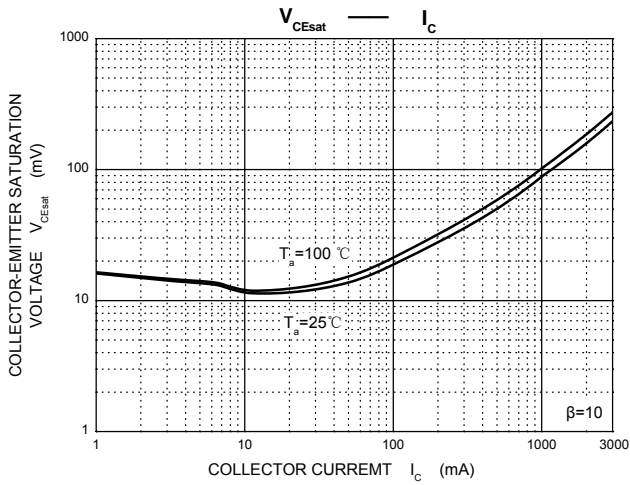
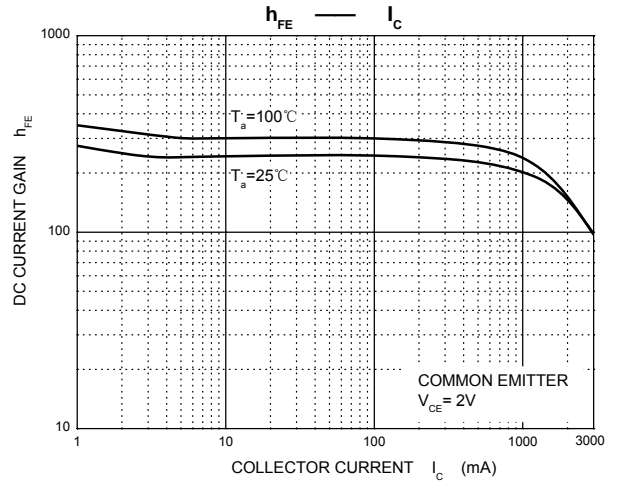
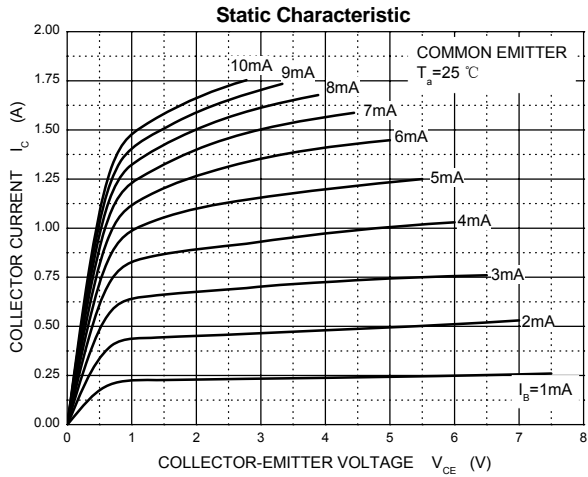
ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|-----|-----|-----|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C = 100μA, I _E =0 | 40 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C = 10mA, I _B =0 | 30 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E = 100μA, I _C =0 | 6 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} = 40V, I _E =0 | | | 1 | μA |
| Collector cut-off current | I _{CEO} | V _{CE} = 30V, I _B =0 | | | 10 | μA |
| Emitter cut-off current | I _{EBO} | V _{EB} = 6V, I _C =0 | | | 1 | μA |
| DC current gain | h _{FE(1)} | V _{CE} =2V, I _C = 1A | 60 | | 400 | |
| | h _{FE(2)} | V _{CE} =2V, I _C = 100mA | 32 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C = 2A, I _B = 0.2 A | | | 0.5 | V |
| Base-emitter saturation voltage | V _{BE(sat)} | I _C = 2A, I _B = 0.2 A | | | 1.5 | V |
| Transition frequency | f _T | V _{CE} = 5V, I _C =0.1A f =10MHz | 50 | | | MHz |

CLASSIFICATION OF h_{FE(1)}

| Rank | R | O | Y | GR |
|-------|--------|---------|---------|---------|
| Range | 60-120 | 100-200 | 160-320 | 200-400 |

Typical Characteristics



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