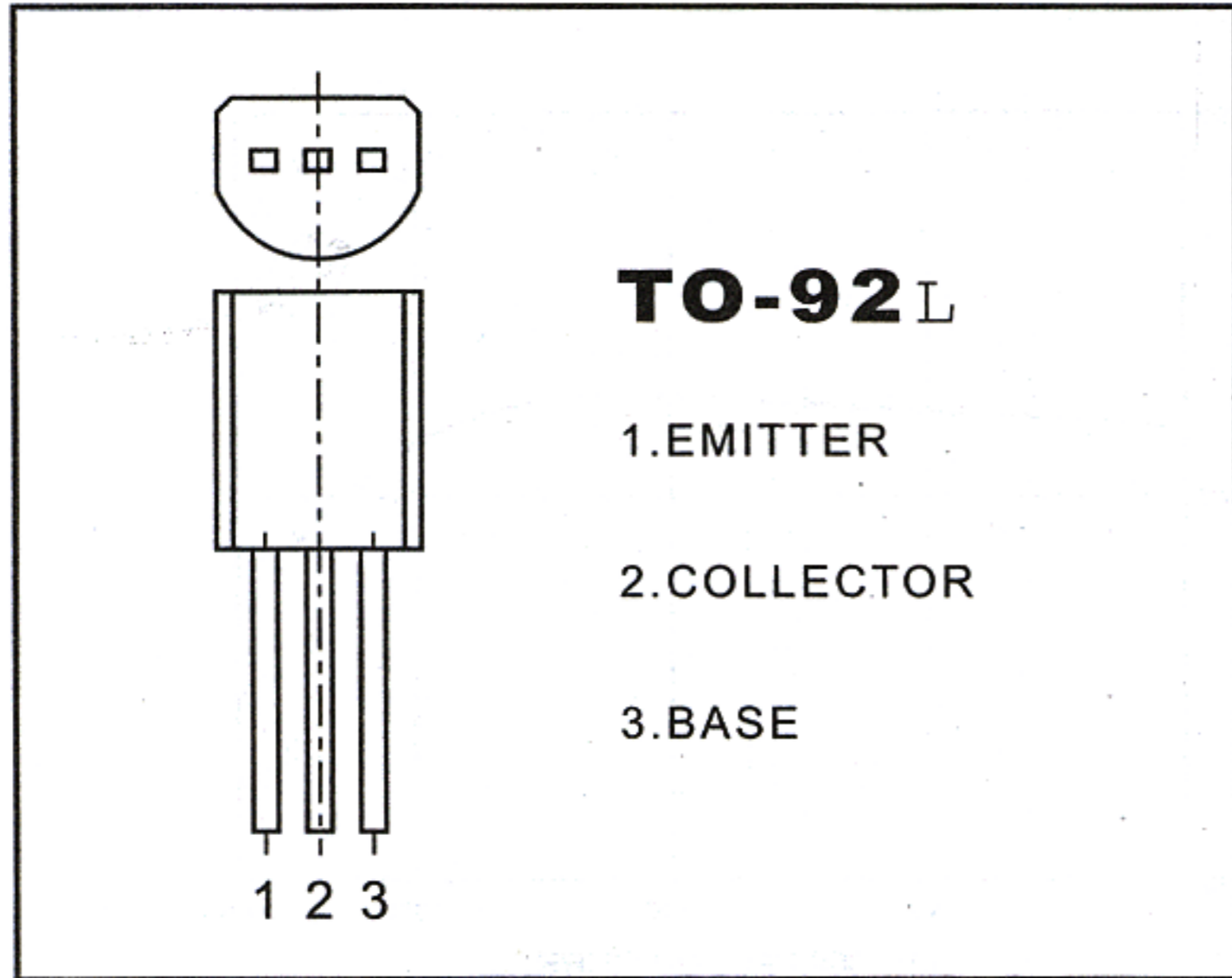


KSA928A TRANSISTOR(PNP)



FEATURES

Power dissipation

P_{CM} : 1W ($T_{amb}=25^{\circ}C$)

Collector current

I_{CM} : -2A

Collector-base voltage

$V_{(BR)CBO}$: -30 V

Operating and storage junction temperature range

T_J, T_{stg} : $-55^{\circ}C$ to $+150^{\circ}C$

ELECTRICAL CHARACTERISTICS

($T_{amb}=25^{\circ}C$ unless otherwise specified)

| Parameter | Symbol | Test conditions | MIN | MAX | UNIT |
|--------------------------------------|---------------|--------------------------------|-----|------|---------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C = -100 \mu A, I_E = 0$ | -30 | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C = -10 mA, I_B = 0$ | -30 | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E = -1 mA, I_C = 0$ | -5 | | V |
| Collector cut-off current | I_{CBO} | $V_{CB} = -30 V, I_E = 0$ | | -0.1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -5 V, I_C = 0$ | | -0.1 | μA |
| DC current gain | h_{FE} | $V_{CE} = -2 V, I_C = -500 mA$ | 100 | 320 | |
| Collector-emitter saturation voltage | V_{CEsat} | $I_C = -1.5 A, I_B = -0.03 A$ | | -2 | V |
| Base-emitter voltage | V_{BE} | $I_C = -500 mA, V_{CE} = -2V$ | | -1 | V |
| Transition frequency | f_T | $V_{CE} = -2 V, I_C = -500 mA$ | 80 | | MHz |

CLASSIFICATION OF h_{FE}

| Rank | O | Y |
|-------|---------|---------|
| Range | 100-200 | 160-320 |

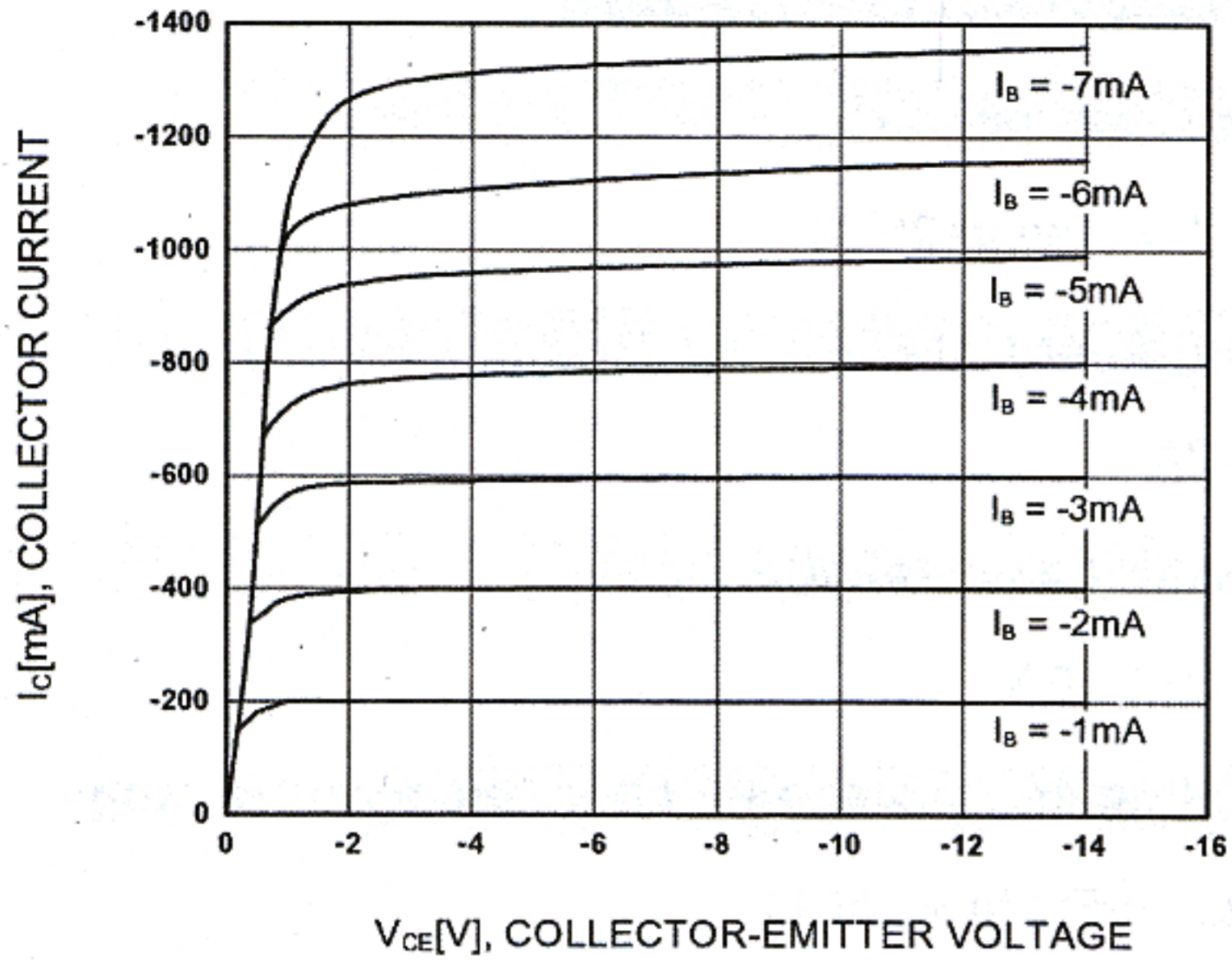


Figure 1. Static Characteristic

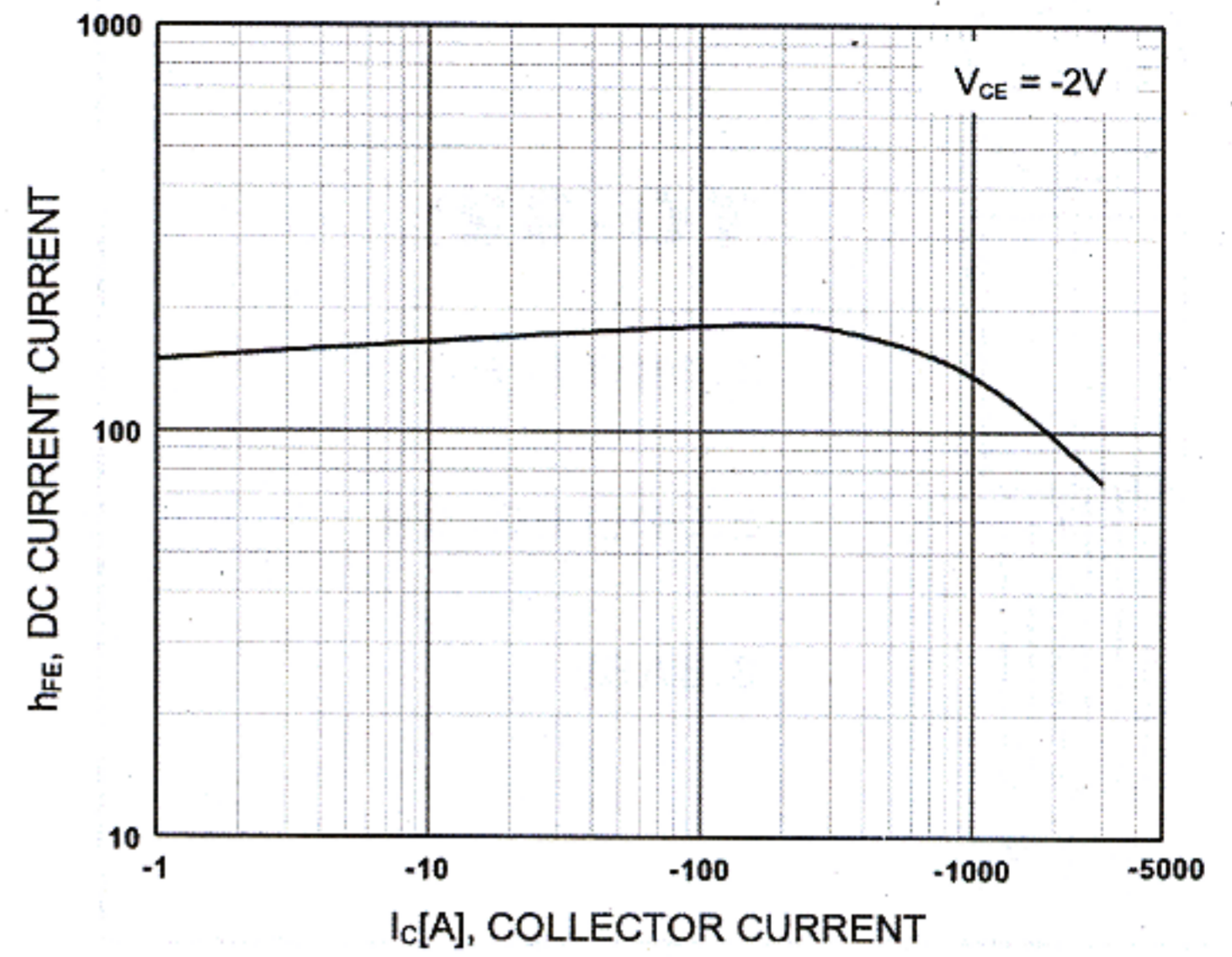


Figure 2. DC current Gain

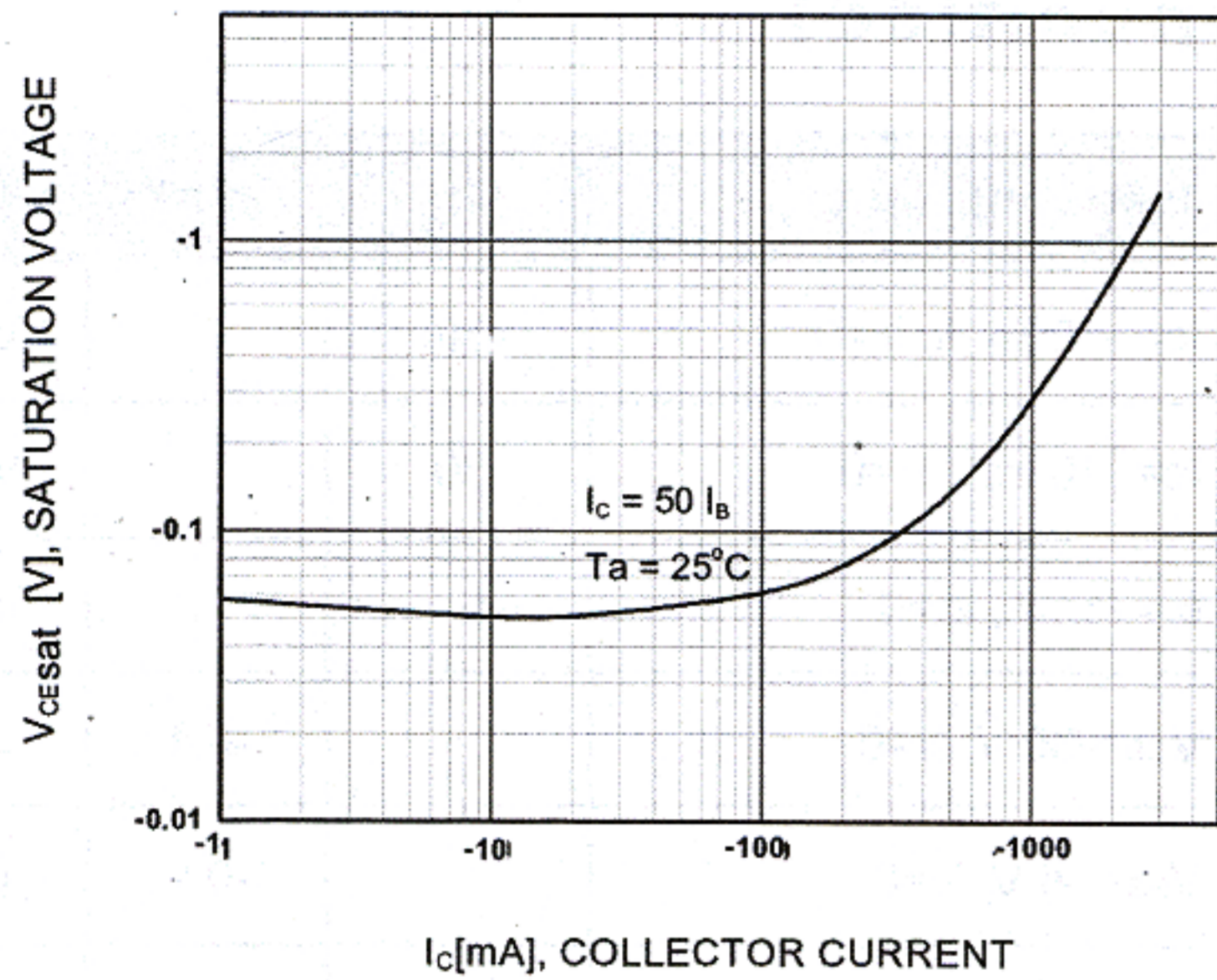


Figure 3. Collector-Emitter Saturation Voltage

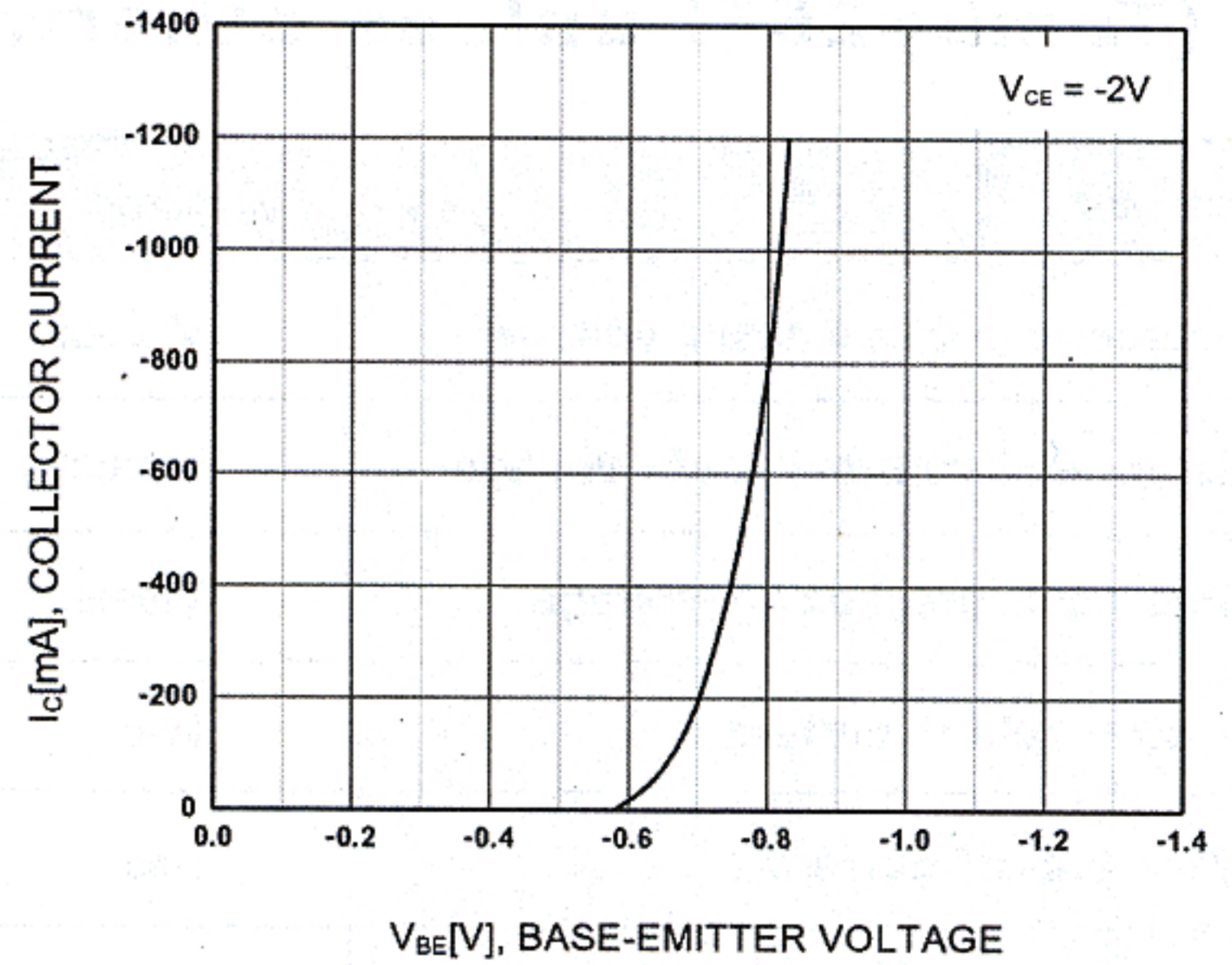


Figure 4. Base-Emitter On Voltage

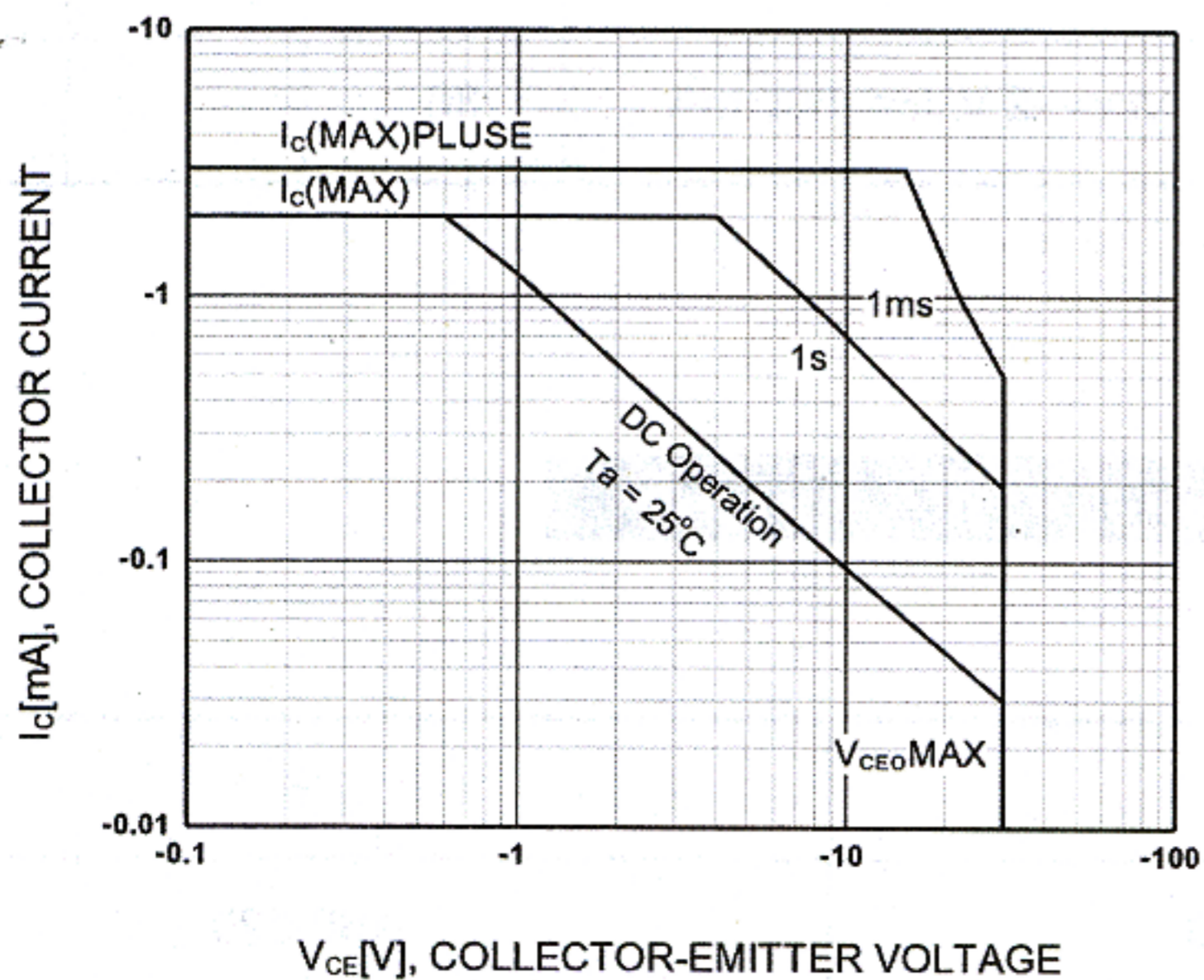


Figure 5. Safe Operating Area

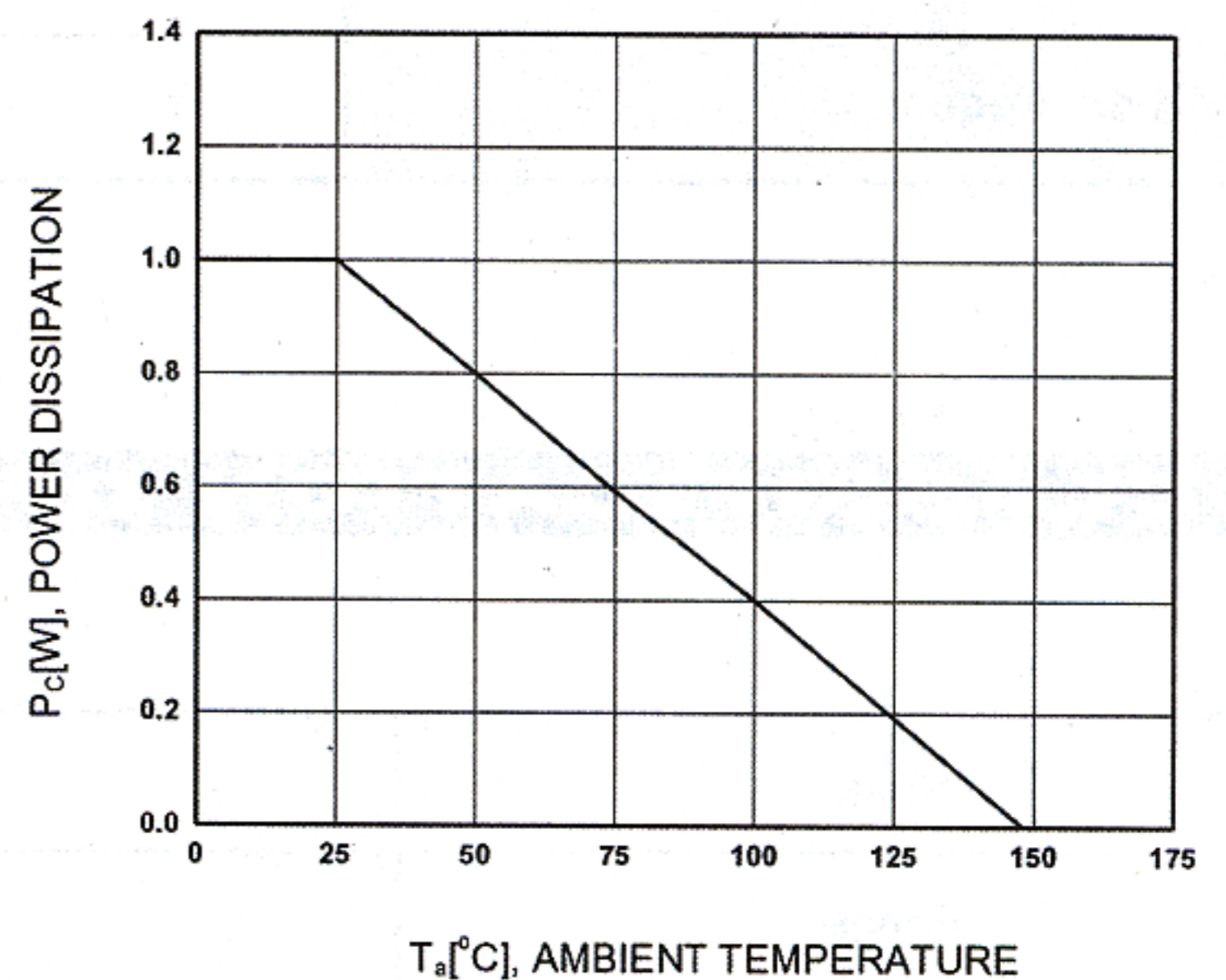


Figure 6. Power Derating