

2SA608 TRANSISTOR (PNP)

FEATURES

Power dissipation

$$P_{CM} : 400 \text{ mW (Tamb=25°C)}$$

Collector current

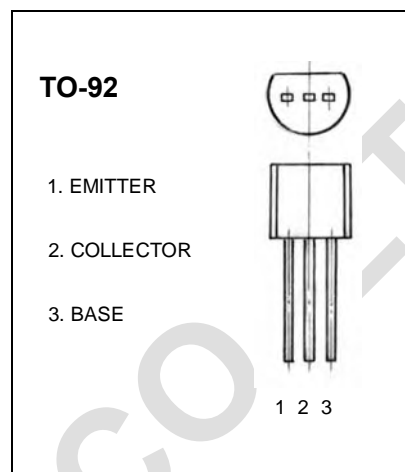
$$I_{CM} : -100 \text{ mA}$$

Collector-base voltage

$$V_{(BR)CBO} : -40 \text{ V}$$

Operating and storage junction temperature range

$$T_J, T_{stg} : -55°C \text{ to } +150°C$$



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

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|--------------------------------------|---------------|-----------------------------|-----|-----|------|---------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C = -100\mu A, I_E = 0$ | -40 | | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C = -1mA, I_B = 0$ | -30 | | | V |
| Emitter-Base breakdown voltage | $V_{(BR)EBO}$ | $I_E = -100\mu A, I_C = 0$ | -5 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB} = -25V, I_E = 0$ | | | -1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -4V, I_C = 0$ | | | -1 | μA |
| DC current gain | h_{FE} | $V_{CE} = -6V, I_C = -1mA$ | 60 | | 560 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -50mA, I_B = -5mA$ | | | -0.5 | V |
| Transition frequency | f_T | $V_{CE} = -6V, I_C = -10mA$ | | 180 | | MHz |
| Collector output capacitance | C_{ob} | $V_{CB} = -6V, f = 1MHz$ | | 7 | | pF |

CLASSIFICATION OF h_{FE}

| Rank | D | E | F | G |
|-------|--------|---------|---------|---------|
| Range | 60-120 | 100-200 | 160-320 | 280-560 |