

KTA1275 TRANSISTOR (PNP)

FEATURES

Power dissipation

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

Collector current

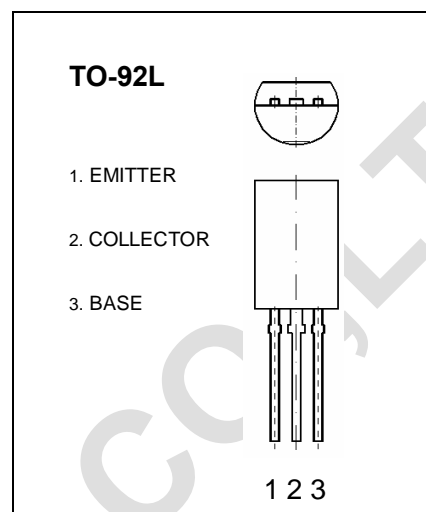
$$I_{CM}: -1 \text{ A}$$

Collector-base voltage

$$V_{(BR)CBO}: -160 \text{ V}$$

Operating and storage junction temperature range

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



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

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|--------------------------------------|---------------|--|-------|-----|-------|---------------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C=-1\text{mA}, I_E=0$ | -160 | | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C=-10\text{mA}, I_B=0$ | -160 | | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E=-1\text{mA}, I_C=0$ | -6 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=-150\text{V}, I_E=0$ | | | -1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=-6\text{V}, I_C=0$ | | | -1 | μA |
| DC current gain | $h_{FE(1)}$ | $V_{CE}=-5\text{V}, I_C=-200\text{mA}$ | 60 | | 320 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=-500\text{mA}, I_B=-50\text{mA}$ | | | -1.5 | V |
| Base-emitter voltage | V_{BE} | $V_{CE}=-5\text{V}, I_C=-5\text{mA}$ | -0.45 | | -0.75 | V |
| Transition frequency | f_T | $V_{CE}=-5\text{V}, I_C=-200\text{mA}$ | 15 | | | MHz |
| Collector output capacitance | C_{ob} | $V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$ | | | 35 | pF |

CLASSIFICATION OF $h_{FE(1)}$

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