

**KTA1274** TRANSISTOR (PNP)**FEATURES**

Power dissipation

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

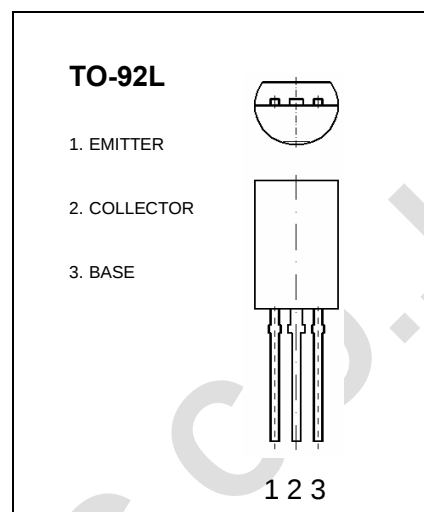
Collector current

 $I_{CM}$ : -400 mA

Collector-base voltage

 $V_{(BR)CBO}$ : -80 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   | TYP | MAX  | UNIT    |
|--------------------------------------|---------------|------------------------------|-------|-----|------|---------|
| Collector-base breakdown voltage     | $V_{(BR)CBO}$ | $I_C=-1mA, I_E=0$            | -80   |     |      | V       |
| Collector-emitter breakdown voltage  | $V_{(BR)CEO}$ | $I_C=-5mA, I_B=0$            | -80   |     |      | V       |
| Emitter-base breakdown voltage       | $V_{(BR)EBO}$ | $I_E=-1mA, I_C=0$            | -5    |     |      | V       |
| Collector cut-off current            | $I_{CBO}$     | $V_{CB}=-50V, I_E=0$         |       |     | -0.1 | $\mu A$ |
| Emitter cut-off current              | $I_{EBO}$     | $V_{EB}=-5V, I_C=0$          |       |     | -0.1 | $\mu A$ |
| DC current gain                      | $h_{FE(1)}$   | $V_{CE}=-2V, I_C=-50mA$      | 70    |     | 240  |         |
|                                      | $h_{FE(2)}$   | $V_{CE}=-2V, I_C=-200mA$     | 40    |     |      |         |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=-200mA, I_B=-20mA$      |       |     | -0.4 | V       |
| Base-emitter voltage                 | $V_{BE}$      | $V_{CE}=-2V, I_C=-5mA$       | -0.55 |     | -0.8 | V       |
| Transition frequency                 | $f_T$         | $V_{CE}=-10V, I_C=-10mA$     |       | 80  |      | MHz     |
| Collector output capacitance         | $C_{ob}$      | $V_{CB}=-10V, I_E=0, f=1MHz$ |       | 14  |      | pF      |

**CLASSIFICATION OF  $h_{FE(1)}$** 

| Rank  | O      | Y       |
|-------|--------|---------|
| Range | 70-140 | 120-240 |