



TO-92L Plastic-Encapsulate Transistors

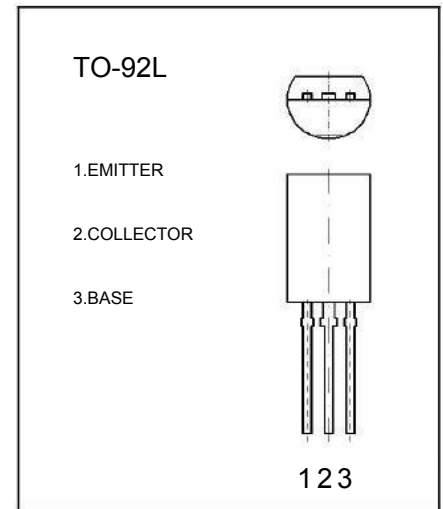
A1273 TRANSISTOR(PNP)

FEATURES

Low collector to emitter saturation voltage $V_{CE(sat)}$.
Complementary pair with KTC3205

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

| Symbol | Parameter | | Units |
|-----------|-------------------------------|---------|------------------|
| V_{CBO} | Collector-Base Voltage | -30 | V |
| V_{CEO} | Collector-Emitter Voltage | -30 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current –Continuous | -2 | A |
| P_C | Collector Power Dissipation | 1.0 | W |
| T_J | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature | -55-150 | $^\circ\text{C}$ |



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

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|--------------------------------------|---------------|--|-----|-----|------|---------------|
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C=-10\text{mA}, I_B=0$ | -30 | | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E=-1\text{mA}, I_C=0$ | -5 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=-30\text{V}, I_E=0$ | | | -100 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=-5\text{V}, I_C=0$ | | | -100 | μA |
| DC current gain | $h_{FE(1)}$ | $V_{CE}=-2\text{V}, I_C=-500\text{mA}$ | 100 | | 320 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=-1.5\text{A}, I_B=-300\text{mA}$ | | | -2.0 | V |
| Base-emitter saturation voltage | V_{BE} | $V_{CE}=-2\text{V}, I_C=-500\text{mA}$ | | | -1.0 | V |
| Transition frequency | f_T | $V_{CE}=-2\text{V}, I_C=-500\text{mA}$ | | 120 | | MHz |

CLASSIFICATION OF $h_{FE(1)}$

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