

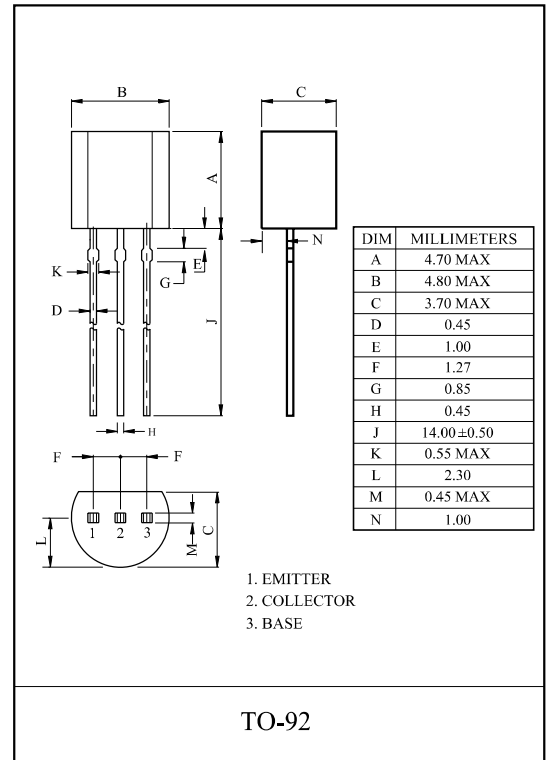
HIGH CURRENT APPLICATION.

FEATURES

- Complementary to KTA1271.

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|-----------|------|
| Collector-Base Voltage | V_{CBO} | 35 | V |
| Collector-Emitter Voltage | V_{CEO} | 30 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 800 | mA |
| Emitter Current | I_E | -800 | mA |
| Collector Power Dissipation | P_C | 625 | mW |
| Junction Temperature | T_j | 150 | °C |
| Operating Temperature | T_{opr} | -40 ~ 85 | °C |
| Storage Temperature Range | T_{sig} | -55 ~ 150 | °C |



ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|--------------------|-----------------------------|------|------|------|------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=35V, I_E=0$ | - | - | 100 | nA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=5V, I_C=0$ | - | - | 100 | nA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=10mA, I_B=0$ | 30 | - | - | V |
| DC Current Gain | $h_{FE(1)}$ (Note) | $V_{CE}=1V, I_C=100mA$ | 100 | - | 320 | |
| | $h_{FE(2)}$ | $V_{CE}=1V, I_C=700mA$ | 35 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=500mA, I_B=20mA$ | - | - | 0.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=1V, I_C=10mA$ | 0.5 | - | 0.8 | V |
| Transition Frequency | f_T | $V_{CE}=5V, I_C=10mA$ | - | 120 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=10V, I_E=0, f=1MHz$ | - | 19 | - | pF |

Note : $h_{FE(1)}$ Classification 0:100 ~ 200, Y:160 ~ 320