

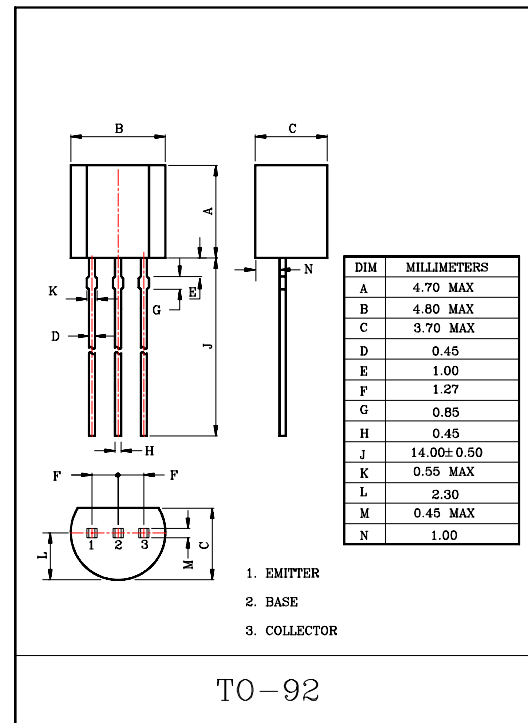
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

- Excellent h_{FE} Linearity
: $h_{FE}(I_C=0.1mA)/h_{FE}(I_C=2mA)=0.95$ (Typ.).
- Low Noise :NF=1dB(Typ.) at f=1kHz.
- Complementary to KTC9014.

MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage | V_{CBO} | -50 | V |
| Collector-Emitter Voltage | V_{CEO} | -50 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -150 | mA |
| Emitter Current | I_E | 150 | mA |
| Collector Power Dissipation | P_C | 625 | mW |
| Junction Temperature | T_j | 150 | °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} | $V_{CB}=-50V, I_E=0$ | - | - | -50 | nA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=-5V, I_C=0$ | - | - | -100 | nA |
| DC Current Gain | h_{FE} (Note) | $V_{CE}=-5V, I_C=-1mA$ | 60 | - | 600 | - |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-100mA, I_B=-10mA$ | - | -0.1 | -0.3 | V |
| Transition Frequency | f_T | $V_{CE}=-10V, I_E=1mA, f=100MHz$ | 60 | - | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=-10V, I_E=0, f=1MHz$ | - | 4.0 | 7.0 | pF |
| Noise Figure | NF | $V_{CE}=-6V, I_C=-0.1mA, R_g=10k\Omega, f=1kHz$ | - | 1.0 | 10 | dB |

Note : h_{FE} Classification A:60~150 , B:100~300 , C:200~600