

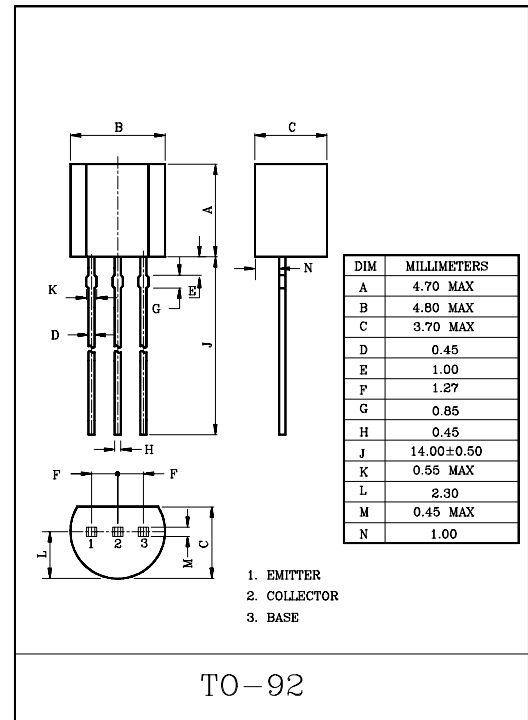
GENERAL PURPOSE APPLICATION.  
SWITCHING APPLICATION.

### FEATURES

- Excellent  $h_{FE}$  Linearity  
:  $f_{T(FC)}$ -25Min. :  $V_{CE}$ -6V,  $I_C$ -400mA.
- Complementary to KTA1270.

### MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC              | SYMBOL    | RATING  | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage      | $V_{CB0}$ | 35      | V    |
| Collector-Emitter Voltage   | $V_{CE0}$ | 30      | V    |
| Emitter-Base Voltage        | $V_{EB0}$ | 5       | V    |
| Collector Current           | $I_C$     | 500     | mA   |
| Emitter Current             | $I_E$     | 500     | mA   |
| Collector Power Dissipation | $P_C$     | 625     | mW   |
| Junction Temperature        | $T_J$     | 150     | °C   |
| Storage Temperature Range   | $T_{stg}$ | -55~150 | °C   |



### ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC                       | SYMBOL                | TEST CONDITION             | MIN. | TYP. | MAX. | UNIT    |
|--------------------------------------|-----------------------|----------------------------|------|------|------|---------|
| Collector Cut-off Current            | $I_{C0}$              | $V_{CE}=35V, I_E=0$        | -    | -    | 0.1  | $\mu A$ |
| Emitter Cut-off Current              | $I_{E0}$              | $V_{BE}=5V, I_C=0$         | -    | -    | 0.1  | $\mu A$ |
| DC Current Gain                      | $h_{FE(1)}$<br>(Note) | $V_{CE}=1V, I_C=100mA$     | 70   | -    | 240  |         |
|                                      | $h_{FE(2)}$<br>(Note) | $V_{CE}=6V, I_C=400mA$     | 25   | -    | -    |         |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$         | $I_C=100mA, I_E=10mA$      | -    | 0.1  | 0.25 | V       |
| Base-Emitter Voltage                 | $V_{BE}$              | $V_{CE}=1V, I_C=100mA$     | -    | 0.8  | 1.0  | V       |
| Transition Frequency                 | $f_T$                 | $V_{CE}=6V, I_C=20mA$      | -    | 300  | -    | MHz     |
| Collector Output Capacitance         | $C_{CO}$              | $V_{CE}=6V, f=1MHz, I_E=0$ | -    | 7.0  | -    | pF      |

Note :  $h_{FE(1)}$  Classification : 0:70~140, Y:120~240  
 $h_{FE(2)}$  Classification : 0:25(MIN.), Y:40(MIN.)

