

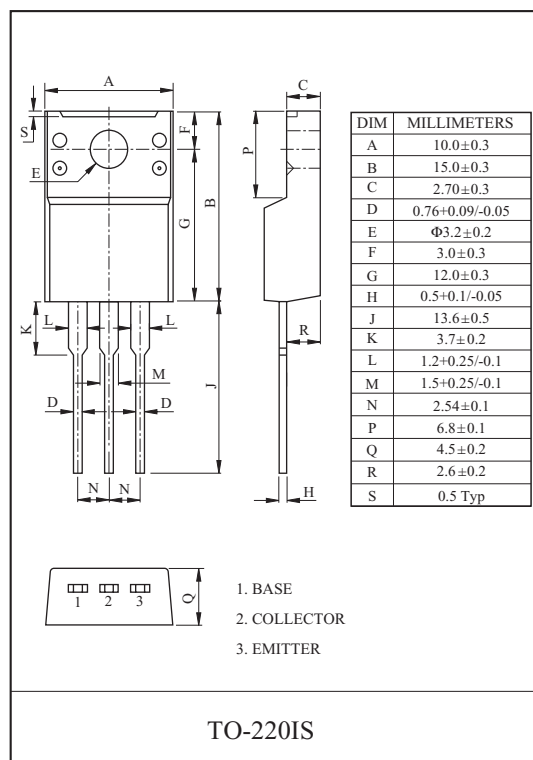
GENERAL PURPOSE APPLICATION.

### FEATURES

- Low Collector-Emitter Saturation Voltage  
:  $V_{CE(sat)} = -2.0V(\text{Max.})$ .
- Complementary to KTC2028.

### MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC                         | SYMBOL    | RATING    | UNIT |
|--|-----------|-----------|------|
| Collector-Base Voltage                 | $V_{CBO}$ | -100      | V    |
| Collector-Emitter Voltage              | $V_{CEO}$ | -100      | V    |
| Emitter-Base Voltage                   | $V_{EBO}$ | -5        | V    |
| Collector Current                      | $I_C$     | -5        | A    |
| Base Current                           | $I_B$     | -0.5      | A    |
| Collector Power Dissipation (Tc=25 °C) | $P_C$     | 30        | W    |
| 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            | $I_{CBO}$          | $V_{CB} = -100V, I_E = 0$          | -    | -    | -100 | μA   |
| Emitter Cut-off Current              | $I_{EBO}$          | $V_{EB} = -5V, I_C = 0$            | -    | -    | -1   | mA   |
| Collector-Emitter Breakdown Voltage  | $V_{(BR)CEO}$      | $I_C = -50mA, I_B = 0$             | -100 | -    | -    | V    |
| DC Current Gain                      | $h_{FE(1)}$ (Note) | $V_{CE} = -5V, I_C = -1A$          | 70   | -    | 240  |      |
|                                      | $h_{FE(2)}$        | $V_{CE} = -5V, I_C = -4A$          | 20   | -    | -    |      |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$      | $I_C = -4A, I_B = -0.4A$           | -    | -    | -2.0 | V    |
| Base-Emitter Voltage                 | $V_{BE}$           | $V_{CE} = -5V, I_C = -4A$          | -    | -    | -1.5 | V    |
| Transition Frequency                 | $f_T$              | $V_{CE} = -5V, I_C = -1A$          | -    | 30   | -    | MHz  |
| Collector Output Capacitance         | $C_{ob}$           | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | -    | 90   | -    | pF   |

Note :  $h_{FE(1)}$  Classification O:70 ~ 140 , Y:120 ~ 240

