

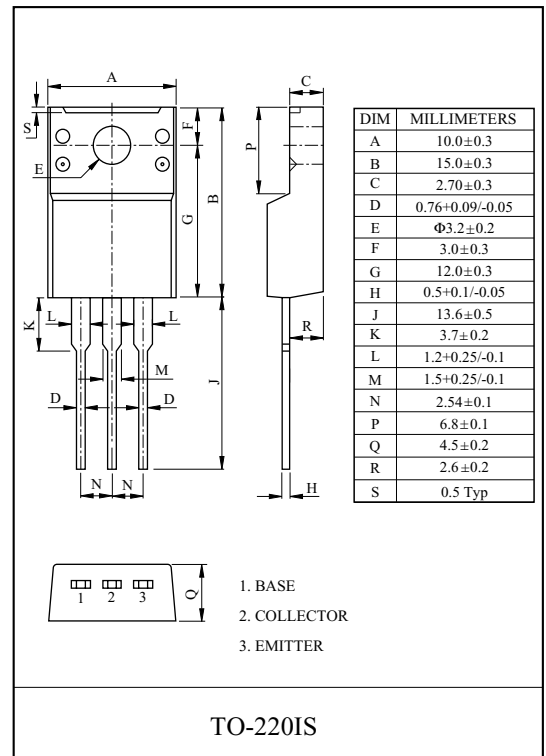
GENERAL PURPOSE APPLICATION.

FEATURES

- Good Linearity of h_{FE} .
- Complementary to KTA1658.

MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|----------------------------------------|-----------|-----------|------|
| Collector-Base Voltage | V_{CBO} | 30 | V |
| Collector-Emitter Voltage | V_{CEO} | 30 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 3 | A |
| Base Current | I_B | 0.3 | A |
| Collector Power Dissipation (Tc=25 °C) | P_C | 15 | 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} | $V_{CB}=20V, I_E=0$ | - | - | 1.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=5V, I_C=0$ | - | - | 1.0 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=10mA, I_B=0$ | 30 | - | - | V |
| DC Current Gain | $h_{FE(1)}$ (Note) | $V_{CE}=2V, I_C=0.5A$ | 70 | - | 240 | |
| | $h_{FE(2)}$ | $V_{CE}=2V, I_C=2.5A$ | 25 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=2A, I_B=0.2A$ | - | 0.3 | 0.8 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=2V, I_C=0.5A$ | - | 0.75 | 1.0 | V |
| Transition Frequency | f_T | $V_{CE}=2V, I_C=0.5A$ | - | 100 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=10V, I_E=0, f=1MHz$ | - | 35 | - | pF |

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

KTC4369

