

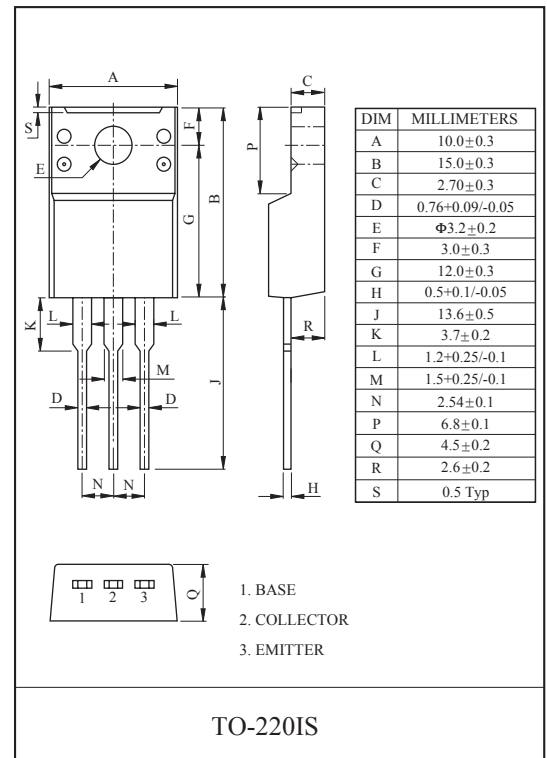
GENERAL PURPOSE APPLICATION.

FEATURES

- Low Collector Saturation Voltage
: $V_{CE(sat)} = -1.0V(\text{Max.})$ at $I_C = -2A, I_B = -0.2A$.
- Collector Power Dissipation
: $P_C = 25W$ ($T_c = 25^\circ C$)
- Complementary to KTD2058.
- Suffix U : Qualified to AEC-Q101.
ex) KTB1366-Y-U/PFU

MAXIMUM RATING ($T_a = 25^\circ C$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|-----------|------------|
| Collector-Base Voltage | V_{CB0} | -60 | V |
| Collector-Emitter Voltage | V_{CE0} | -60 | V |
| Emitter-Base Voltage | V_{EB0} | -7 | V |
| Collector Current | I_C | -3 | A |
| Base Current | I_B | -0.5 | A |
| Collector Power Dissipation | P_C | 25 | W |
| | | | |
| Junction Temperature | T_j | 150 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | $^\circ C$ |



ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|--------------------|------------------------------------|------|-------|------|---------|
| Collector Cut-off Current | I_{CB0} | $V_{CB} = -60V, I_E = 0$ | - | - | -100 | μA |
| Emitter Cut-off Current | I_{EB0} | $V_{EB} = -7V, I_C = 0$ | - | - | -100 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = -50mA, I_B = 0$ | -60 | - | - | V |
| DC Current Gain | $h_{FE(1)}$ (Note) | $V_{CE} = -5V, I_C = -0.5A$ | 60 | - | 200 | |
| | $h_{FE(2)}$ | $V_{CE} = -5V, I_C = -3A$ | 20 | - | - | |
| Collector Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -2A, I_B = -0.2A$ | - | -0.25 | -1.0 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE} = -5V, I_C = -0.5A$ | - | -0.7 | -1.0 | V |
| Transition Frequency | f_T | $V_{CE} = -5V, I_C = -0.5A$ | - | 9 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | - | 150 | - | pF |
| Switching Time | Turn-on Time | t_{on} | - | 0.4 | - | μS |
| | Storage Time | t_{stg} | - | 1.7 | - | |
| | Fall Time | t_f | - | 0.5 | - | |

$-I_{B1} = I_{B2} = 0.2A$
DUTY CYCLE $\leq 1\%$
 $V_{CC} = -30V$

Note : $h_{FE(1)}$ Classification O:60 ~ 120, Y:100 ~ 200

