

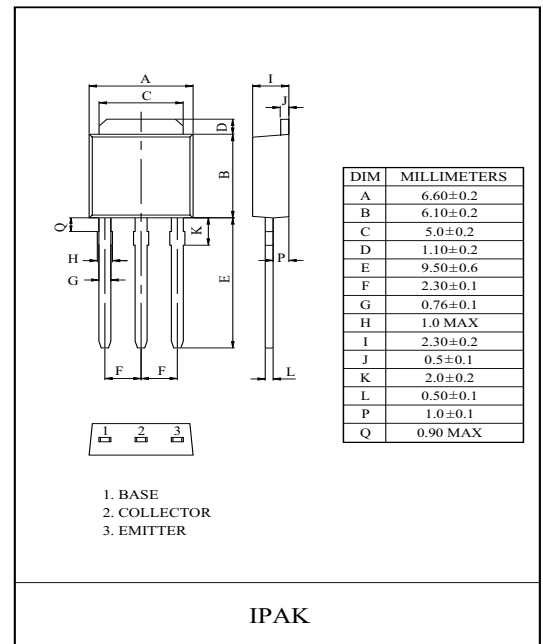
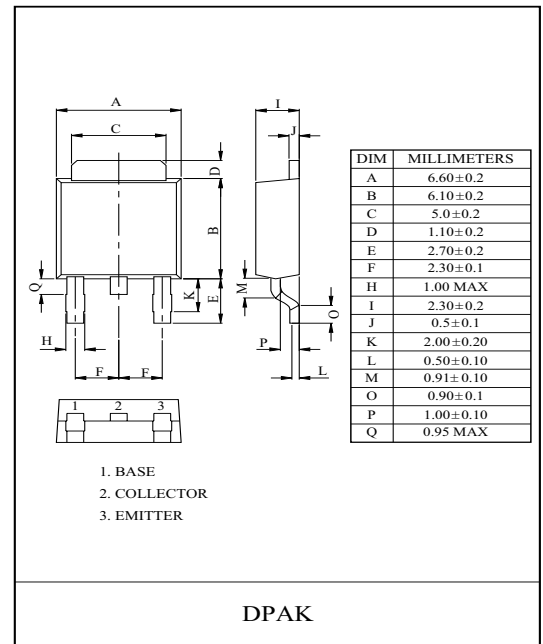
GENERAL PURPOSE APPLICATION.

FEATURES

- Low Collector-Emitter Saturation Voltage
: $V_{CE(sat)} = -2.0V(\text{Max.})$.
- Complementary to KTC2022D/L.

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 | 20 | W |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | °C |

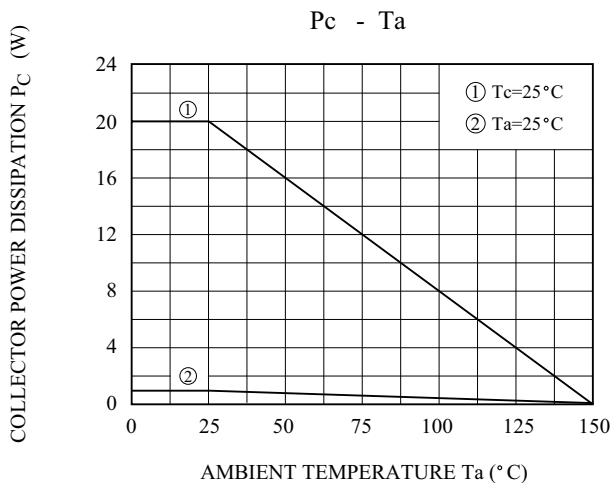
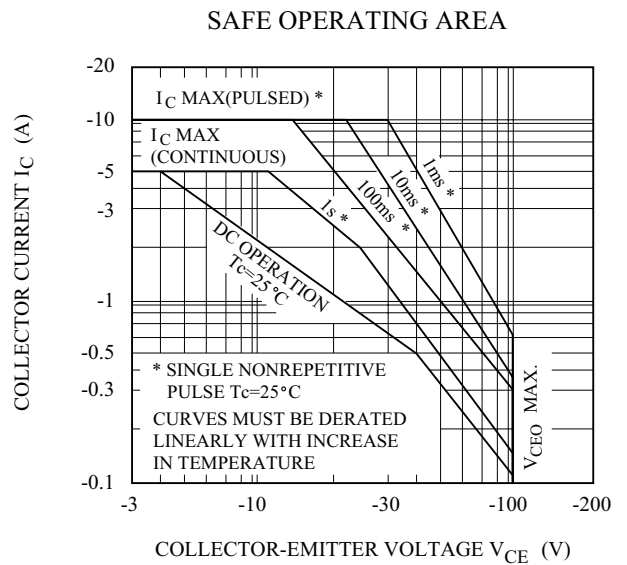
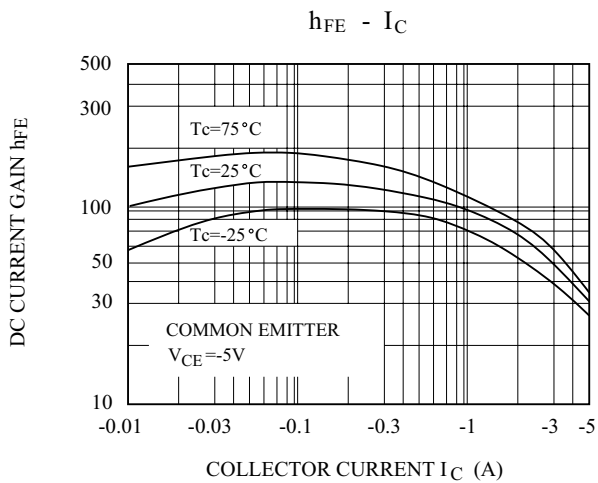
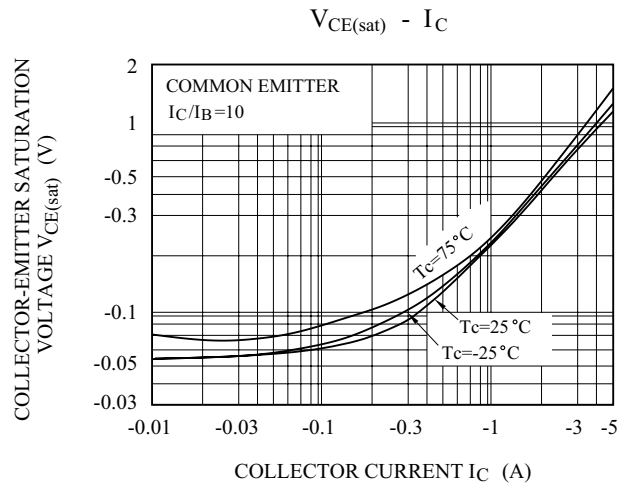
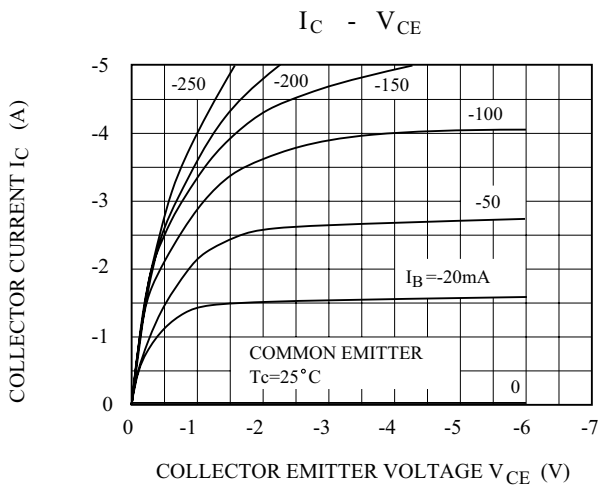


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| 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} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | - | 270 | - | pF |

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

KTA1042D/L



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