

HIGH CURRENT APPLICATION
CAMERA STROBO (For Electronic Flash Unit)

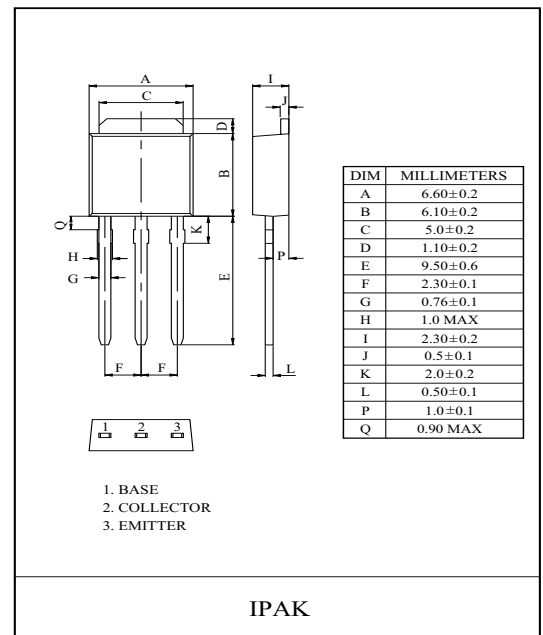
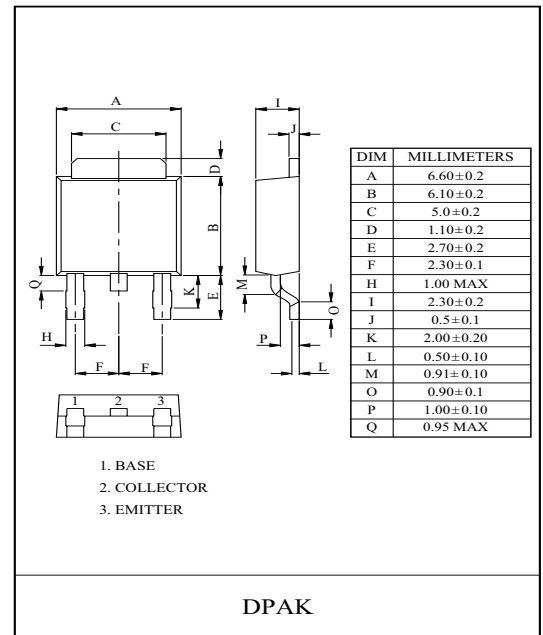
FEATURES

- Low Saturation Voltage : $V_{CE(sat)} = 0.4V(\text{Max})(I_C=3A)$
- High Performance at Low Supply Voltage.

MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|-----------------------------|---------------|-----------|-----------|------|
| Collector-Base Voltage | | V_{CBO} | 40 | V |
| Collector-Emitter Voltage | | V_{CEO} | 20 | V |
| Emitter-Base Voltage | | V_{EBO} | 7 | V |
| Collector Current | DC | I_C | 5 | A |
| | Pulse (Note1) | I_{CP} | 8 | |
| Collector Power Dissipation | | P_C | 1.3 | W |
| Junction Temperature | | T_j | 150 | °C |
| Storage Temperature Range | | T_{stg} | -55 ~ 150 | °C |

Note 1: Pulse Width $\leq 100\text{mS}$, Duty Cycle $\leq 30\%$

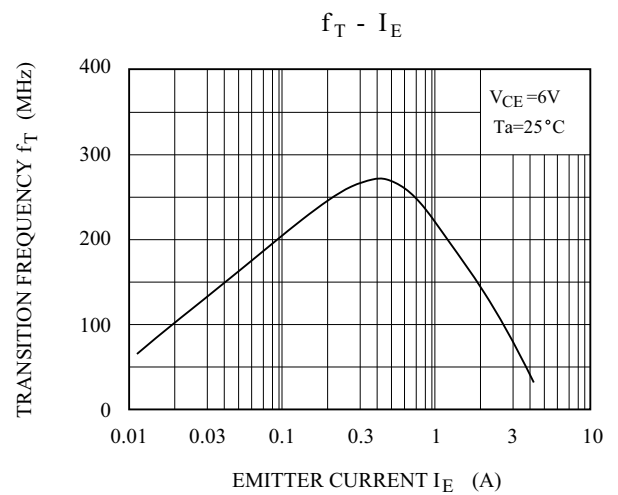
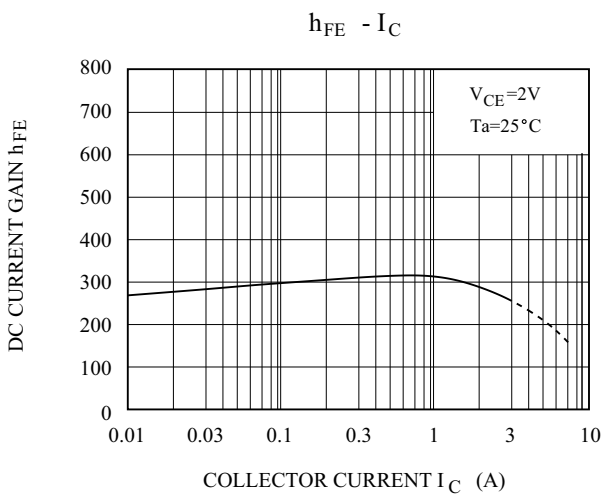
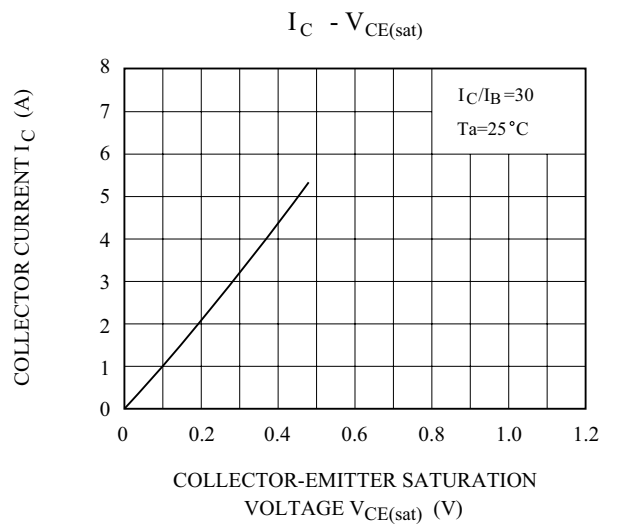
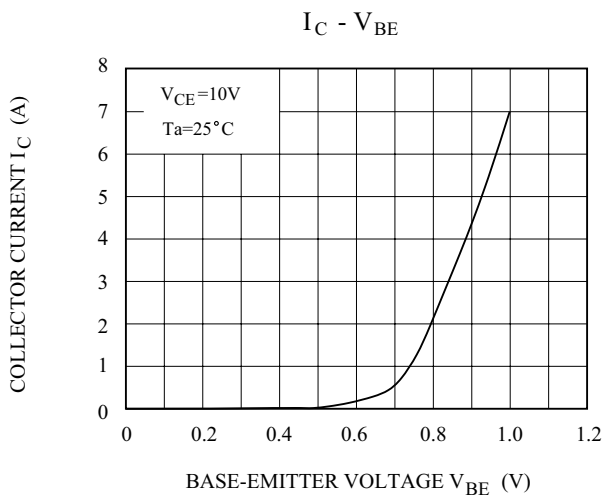
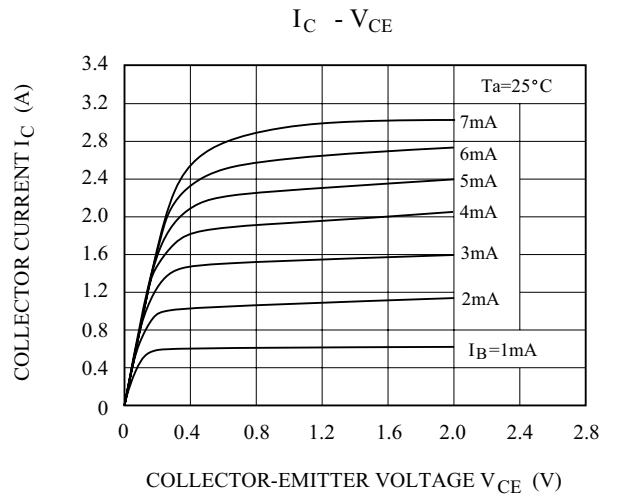
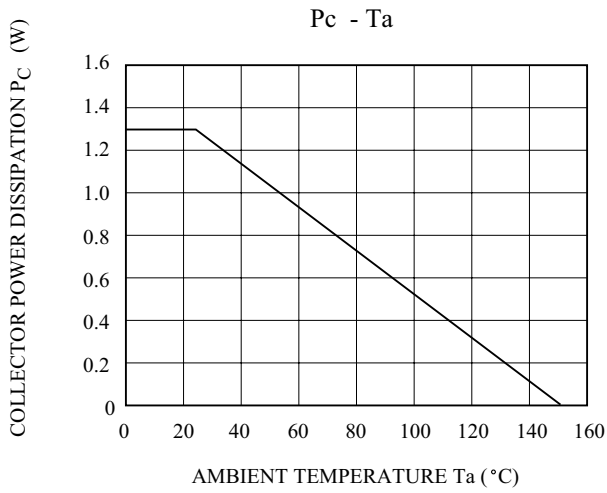


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---------------------|----------------------------------|------|------|------|------|
| Collector Base Breakdown Voltage | $V_{(BR)CBO}$ | $I_C=100\mu A, I_E=0$ | 40 | - | - | V |
| Collector Emitter Breakdown Voltage (1) | $V_{(BR)CEO}$ | $I_C=1mA, I_B=0$ | 20 | - | - | V |
| Emitter Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E=10\mu A, I_C=0$ | 7 | - | - | V |
| Collector Cutoff Current | I_{CBO} | $V_{CB}=20V, I_E=0$ | - | - | 100 | nA |
| Emitter Cutoff Current | I_{EBO} | $V_{EB}=7V, I_C=0$ | - | - | 100 | nA |
| DC Current Gain | $h_{FE(1)}$ (Note1) | $V_{CE}=2V, I_C=0.5A$ | 120 | - | 700 | |
| | $h_{FE(2)}$ | $V_{CE}=2V, I_C=2A$ | 100 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=3A, I_B=60mA(\text{Pulse})$ | - | - | 0.4 | V |
| Transition Frequency | f_T | $V_{CE}=6V, I_C=50mA$ | 20 | 100 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=20V, f=1MHz, I_E=0$ | - | - | 50 | pF |

Note 1 : $h_{FE(1)}$ Classification O:120 ~ 240, Y:200 ~ 400, GR:350 ~ 700

KTC3072D/L



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