

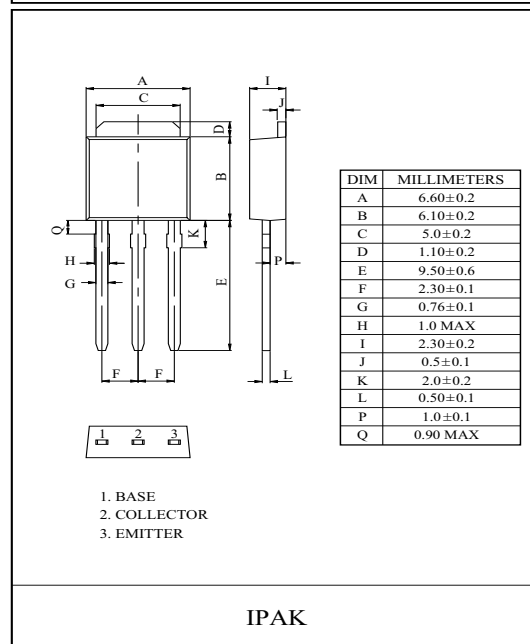
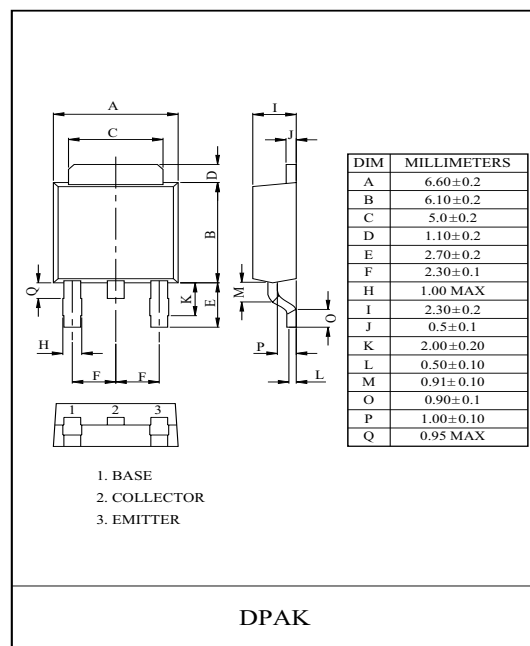
STROBO FLASH APPLICATION.
HIGH CURRENT APPLICATION.

FEATURES

- $h_{FE}=100 \sim 320$ ($V_{CE}=-2V$, $I_C=-0.5A$).
- Low Collector Saturation Voltage.
: $V_{CE(sat)}=-0.5V$ ($I_C=-3A$, $I_B=-75mA$).

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

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|-----------|------------|
| Collector-Base Voltage | V_{CBO} | -35 | V |
| Collector-Emitter Voltage | V_{CEO} | -20 | V |
| Emitter-Base Voltage | V_{EBO} | -8 | V |
| Collector Current | I_C | -5 | A |
| Base Current | I_B | -0.5 | A |
| Collector Power Dissipation | P_C | 1.0 | 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_{CBO} | $V_{CB}=-35V$, $I_E=0$ | - | - | -100 | nA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=-8V$, $I_C=0$ | - | - | -100 | nA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=-10mA$, $I_B=0$ | -20 | - | - | V |
| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E=-1mA$, $I_C=0$ | -8 | - | - | V |
| DC Current Gain | $h_{FE(1)}$ (Note) | $V_{CE}=-2V$, $I_C=-0.5A$ | 100 | - | 320 | |
| | $h_{FE(2)}$ | $V_{CE}=-2V$, $I_C=-4A$ | 70 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-3A$, $I_B=-75mA$ | - | - | -0.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=-2V$, $I_C=-4A$ | - | - | -1.5 | V |
| Transition Frequency | f_T | $V_{CE}=-2V$, $I_C=-0.5A$ | - | 170 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=-10V$, $I_E=0$, $f=1MHz$ | - | 62 | - | pF |

Note : $h_{FE(1)}$ Classification O:100~200, Y:160~320

KTA1242D/L

