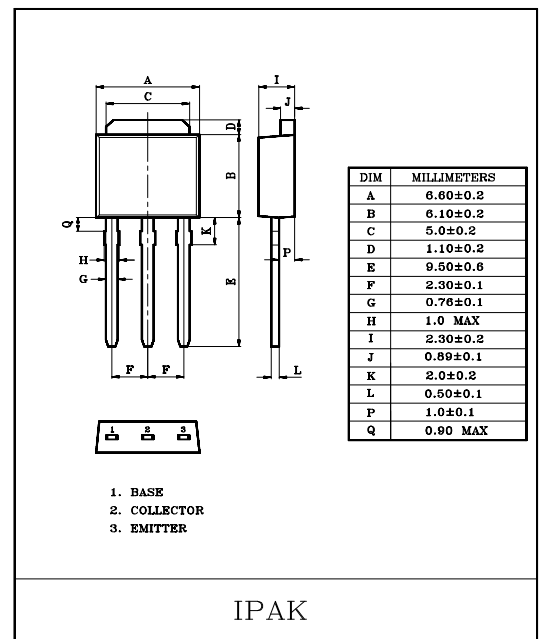
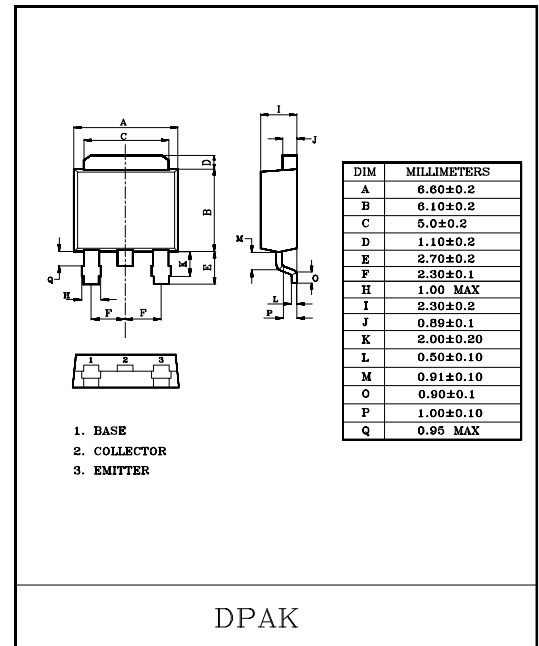


HIGH VOLTAGE APPLICATION. FEATURES

- High Transition Frequency : $f_T=100\text{MHz(Typ.)}$.
- Complementary to KTA1225D/L

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|------------------------|---------|------------------|
| Collector-Base Voltage | V_{CB0} | 160 | V |
| Collector-Emitter Voltage | V_{CEO} | 160 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 1.5 | A |
| Base Current | I_B | 1.0 | A |
| Collector Power Dissipation | $T_a=25^\circ\text{C}$ | 1.3 | W |
| | $T_c=25^\circ\text{C}$ | 10 | |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55~150 | $^\circ\text{C}$ |

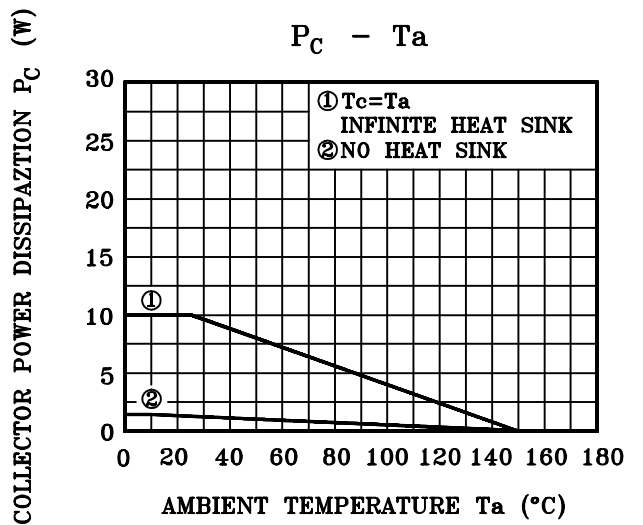
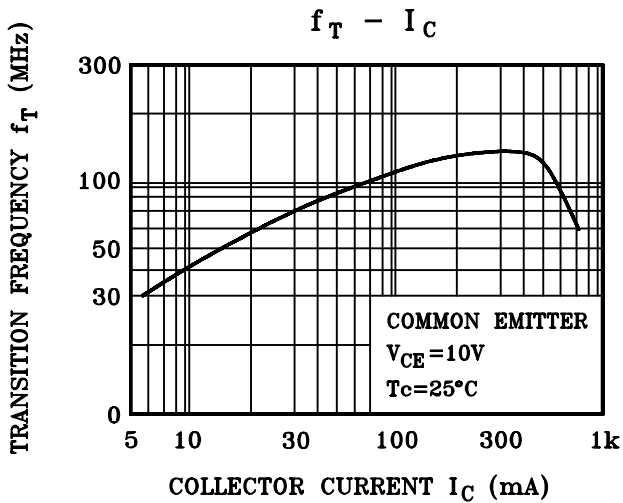
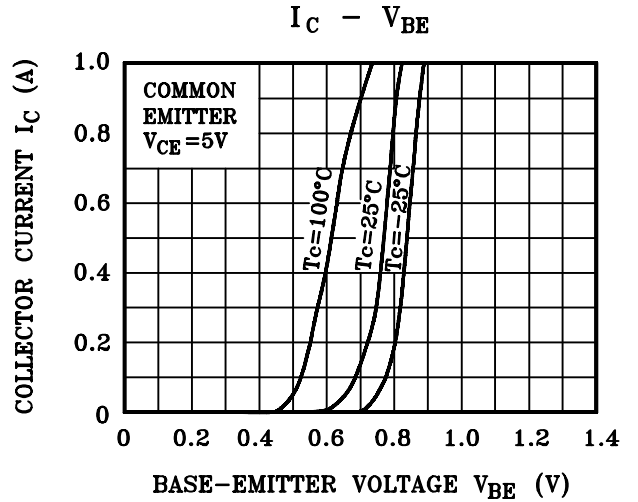
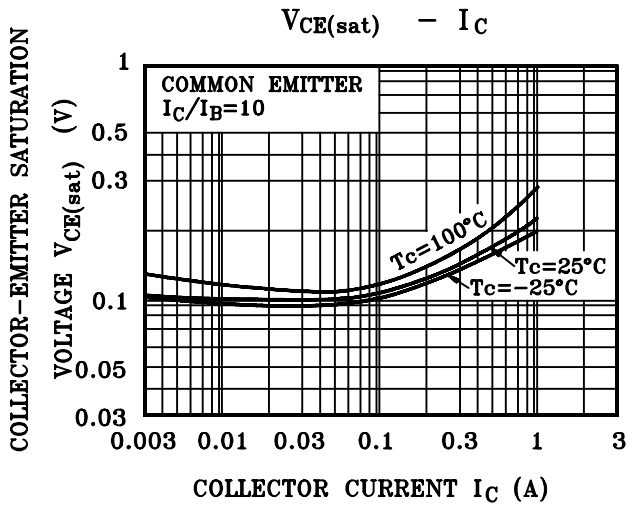
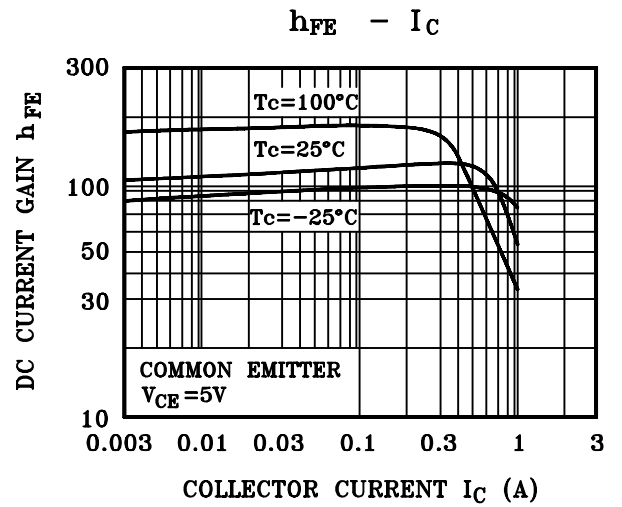
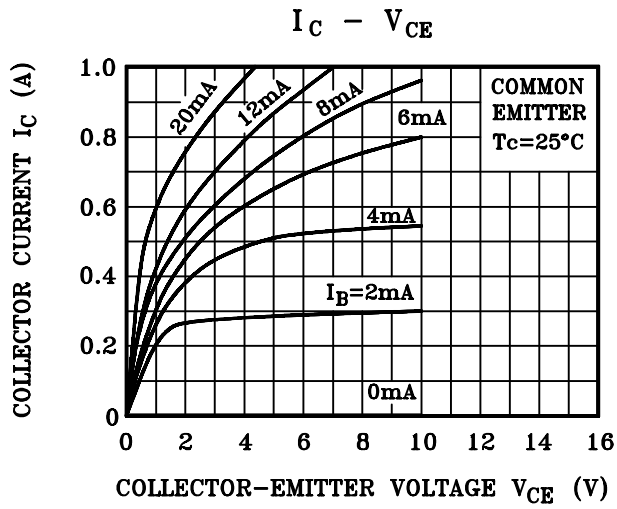


ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-----------------------|---|------|------|------|---------------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=160\text{V}, I_E=0$ | - | - | 1.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=5\text{V}, I_C=0$ | - | - | 1.0 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=10\text{mA}, I_B=0$ | 160 | - | - | V |
| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E=1\text{mA}, I_C=0$ | 5.0 | - | - | V |
| DC Current Gain | $h_{FE}(\text{Note})$ | $V_{CE}=5\text{V}, I_C=100\text{mA}$ | 70 | - | 240 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=500\text{mA}, I_B=50\text{mA}$ | - | - | 1.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=5\text{V}, I_C=500\text{mA}$ | - | - | 1.0 | V |
| Transition Frequency | f_T | $V_{CE}=10\text{V}, I_C=100\text{mA}$ | - | 100 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$ | - | 25 | - | pF |

Note: h_{FE} Classification O:70~140, Y:120~240

KTC2983D/L



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