

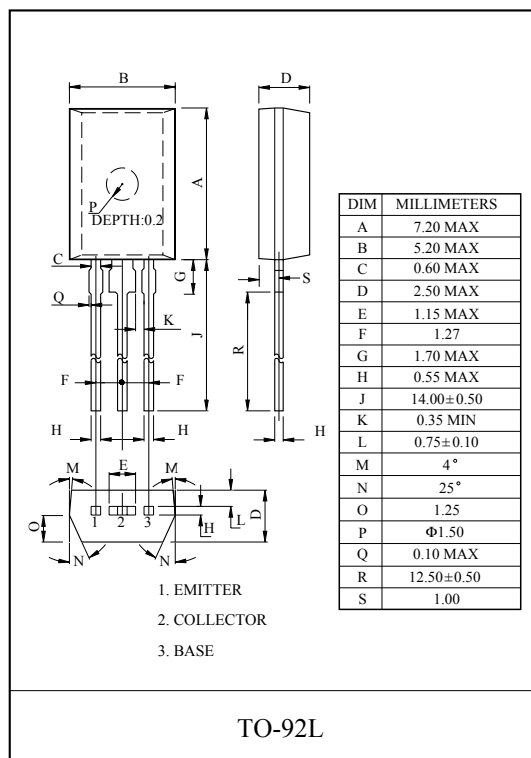
HIGH CURRENT APPLICATION.

#### FEATURES

- Complementary to KTA1273.

#### MAXIMUM RATING (Ta=25℃)

| CHARACTERISTIC              | SYMBOL    | RATING    | UNIT |
|-----------------------------|-----------|-----------|------|
| Collector-Base Voltage      | $V_{CBO}$ | 30        | V    |
| Collector-Emitter Voltage   | $V_{CEO}$ | 30        | V    |
| Emitter-Base Voltage        | $V_{EBO}$ | 5         | V    |
| Collector Current           | $I_C$     | 2         | A    |
| Emitter Current             | $I_E$     | -2        | A    |
| Collector Power Dissipation | $P_C$     | 1         | W    |
| Junction Temperature        | $T_j$     | 150       | ℃    |
| Storage Temperature Range   | $T_{stg}$ | -55 ~ 150 | ℃    |

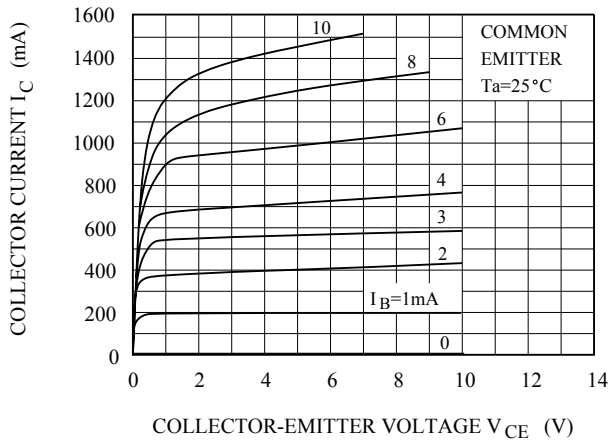


#### ELECTRICAL CHARACTERISTICS (Ta=25℃)

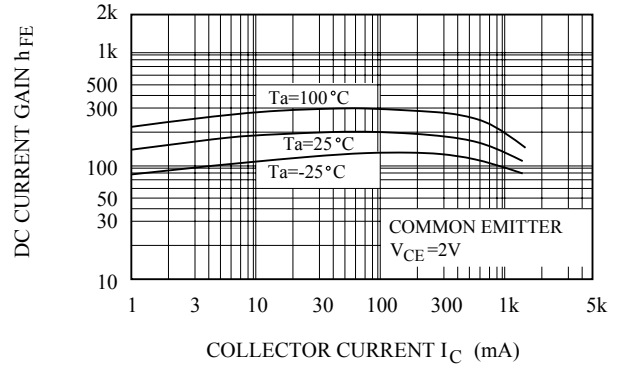
| CHARACTERISTIC                       | SYMBOL          | TEST CONDITION              | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-----------------|-----------------------------|------|------|------|------|
| Collector Cut-off Current            | $I_{CBO}$       | $V_{CB}=30V, I_E=0$         | -    | -    | 100  | nA   |
| Emitter Cut-off Current              | $I_{EBO}$       | $V_{EB}=5V, I_C=0$          | -    | -    | 100  | nA   |
| Collector-Emitter Breakdown Voltage  | $V_{(BR)CEO}$   | $I_C=10mA, I_B=0$           | 30   | -    | -    | V    |
| Emitter-Base Breakdown Voltage       | $V_{(BR)EBO}$   | $I_E=1mA, I_C=0$            | 5    | -    | -    | V    |
| DC Current Gain                      | $h_{FE}$ (Note) | $V_{CE}=2V, I_C=500mA$      | 100  | -    | 320  |      |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$   | $I_C=1.5A, I_B=0.03A$       | -    | -    | 2.0  | V    |
| Base-Emitter Voltage                 | $V_{BE}$        | $V_{CE}=2V, I_C=500mA$      | -    | -    | 1.0  | V    |
| Transition Frequency                 | $f_T$           | $V_{CE}=2V, I_C=500mA$      | -    | 120  | -    | MHz  |
| Collector Output Capacitance         | $C_{ob}$        | $V_{CB}=10V, I_E=0, f=1MHz$ | -    | 13   | -    | pF   |

Note :  $h_{FE}$  Classification 0:100 ~ 200, Y:160 ~ 320

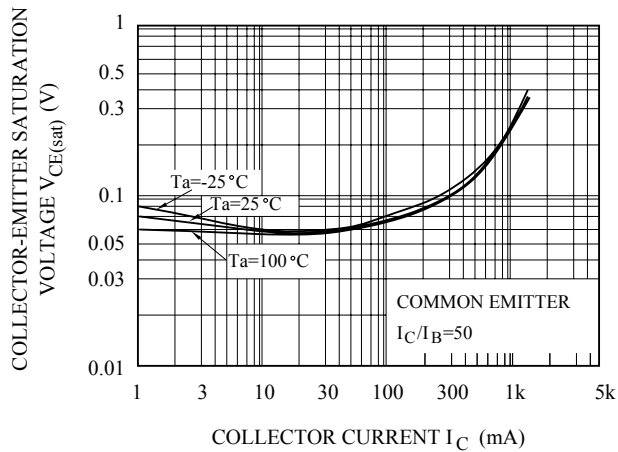
$I_C - V_{CE}$



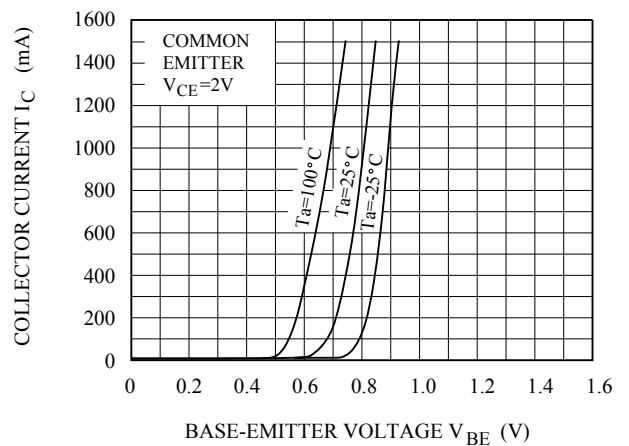
$h_{FE} - I_C$



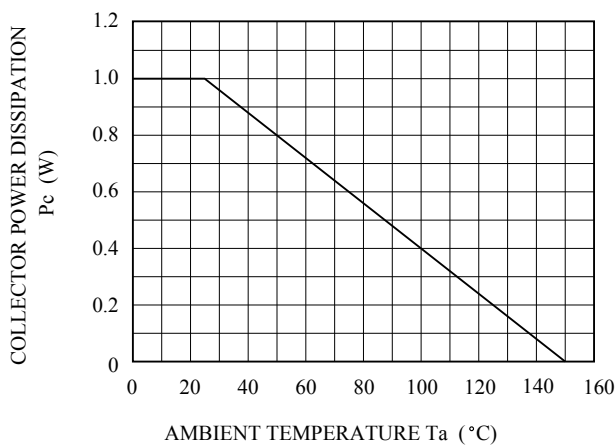
$V_{CE(sat)} - I_C$



$I_C - V_{BE}$



$P_c - T_a$



SAFE OPERATING AREA

