

HIGH CURRENT APPLICATION.

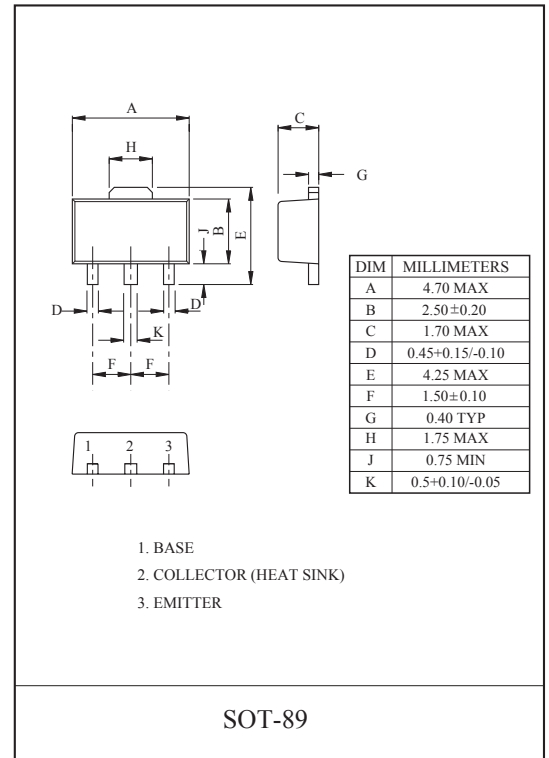
FEATURES

- 1W (Mounted on Ceramic Substrate).
- Small Flat Package.
- Complementary to KTC4375.

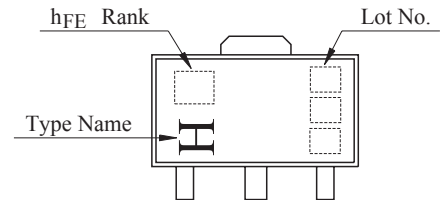
MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|-----------|------|
| Collector-Base Voltage | V_{CB0} | -30 | V |
| Collector-Emitter Voltage | V_{CEO} | -30 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -1.5 | A |
| Base Current | I_B | -0.3 | A |
| Collector Power Dissipation | P_C | 500 | mW |
| | P_C^* | 1 | W |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | °C |

P_C^* : KTA1663 mounted on ceramic substrate (250mm²x0.8t)



Marking



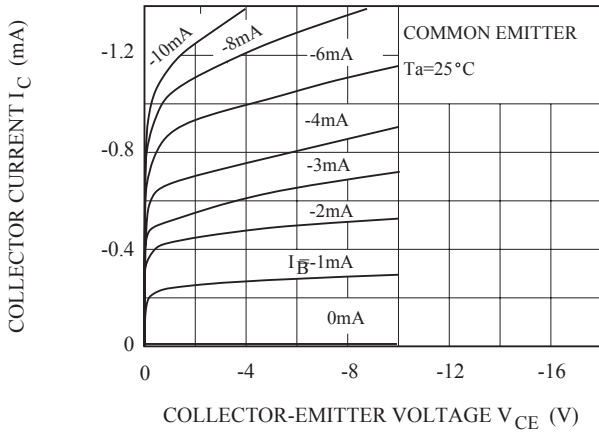
ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-----------------|------------------------------|------|------|------|------|
| Collector Cut-off Current | I_{CB0} | $V_{CB}=-30V, I_E=0$ | - | - | -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 | $V_{(BR)EBO}$ | $I_E=-1mA, I_C=0$ | -5.0 | - | - | 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} | $V_{CB}=-10V, I_E=0, f=1MHz$ | - | - | 50 | pF |

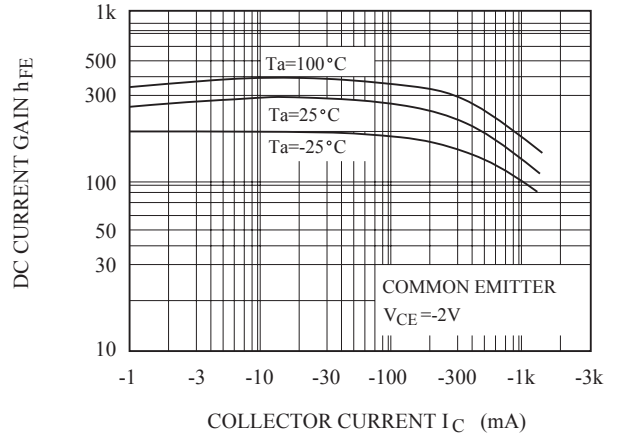
Note : h_{FE} Classification O:100 ~ 200, Y:160 ~ 320

KTA1663

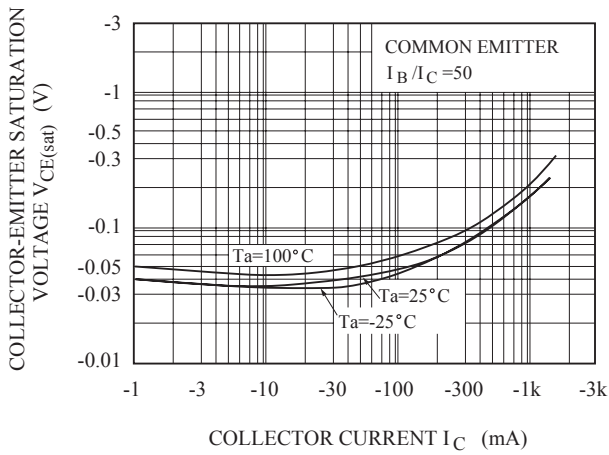
$I_C - V_{CE}$



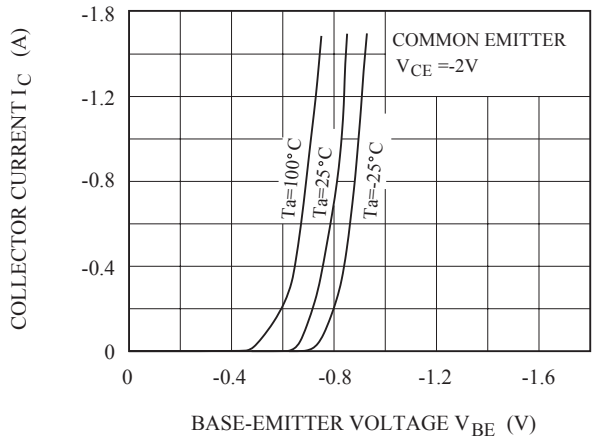
$h_{FE} - I_C$



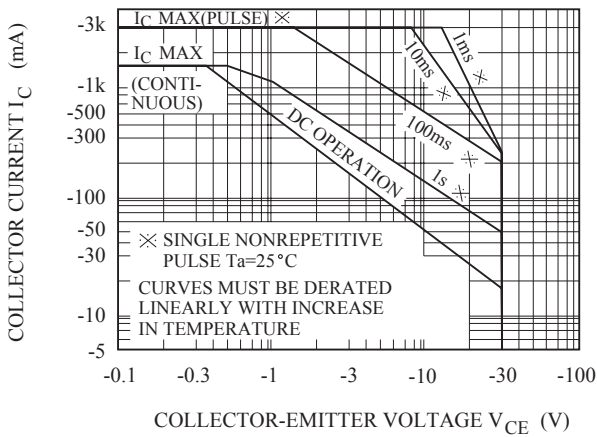
$V_{CE(sat)} - I_C$



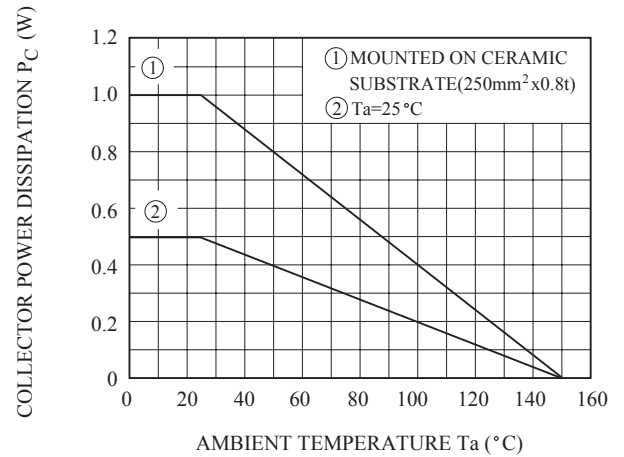
$I_C - V_{BE}$



SAFE OPERATING AREA



$P_c - T_a$



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