

## GENERAL PURPOSE APPLICATION.

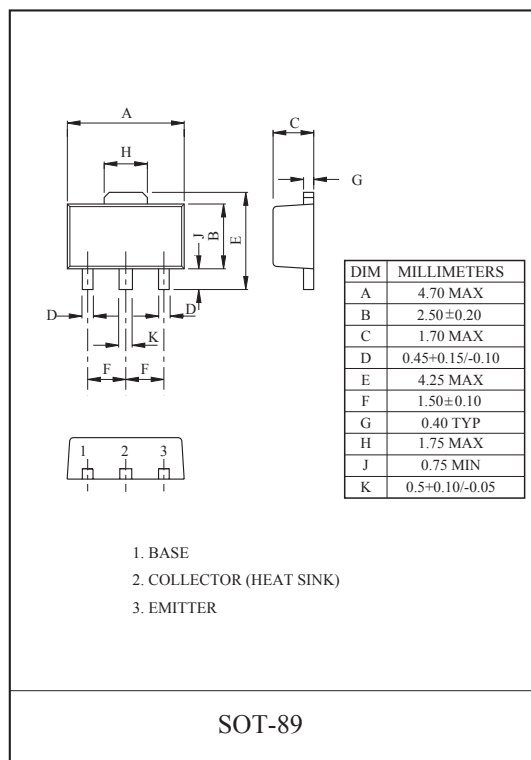
## FEATURES

- 1W (Mounted on Ceramic Substrate).
- Small Flat Package.
- Complementary to KTC4374.

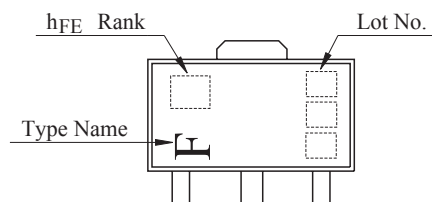
## MAXIMUM RATING (Ta=25℃)

| CHARACTERISTIC              | SYMBOL    | RATING    | UNIT |
|-----------------------------|-----------|-----------|------|
| Collector-Base Voltage      | $V_{CBO}$ | -80       | V    |
| Collector-Emitter Voltage   | $V_{CEO}$ | -80       | V    |
| Emitter-Base Voltage        | $V_{EBO}$ | -5        | V    |
| Collector Current           | $I_C$     | -400      | mA   |
| Base Current                | $I_B$     | -80       | mA   |
| Collector Power Dissipation | $P_C$     | 500       | mW   |
|                             | $P_C^*$   | 1         | W    |
| Junction Temperature        | $T_j$     | 150       | ℃    |
| Storage Temperature Range   | $T_{stg}$ | -55 ~ 150 | ℃    |

$P_C^*$  : KTA1662 mounted on ceramic substrate (250mm<sup>2</sup>x0.8t)



## Marking



## ELECTRICAL CHARACTERISTICS (Ta=25℃)

| CHARACTERISTIC                       | SYMBOL             | TEST CONDITION               | MIN.  | TYP. | MAX. | UNIT |
|--------------------------------------|--------------------|------------------------------|-------|------|------|------|
| Collector Cut-off Current            | $I_{CBO}$          | $V_{CB}=-80V, I_E=0$         | -     | -    | -100 | nA   |
| Emitter Cut-off Current              | $I_{EBO}$          | $V_{EB}=-5V, I_C=0$          | -     | -    | -100 | nA   |
| Collector-Emitter Breakdown Voltage  | $V_{(BR)CEO}$      | $I_C=-10mA, I_B=0$           | -80   | -    | -    | V    |
| DC Current Gain                      | $h_{FE}(1)$ (Note) | $V_{CE}=-2V, I_C=-50mA$      | 70    | -    | 240  |      |
|                                      | $h_{FE}(2)$        | $V_{CE}=-2V, I_C=-200mA$     | 40    | -    | -    |      |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$      | $I_C=-200mA, I_B=-20mA$      | -     | -    | -0.4 | V    |
| Base-Emitter Voltage                 | $V_{BE}$           | $V_{CE}=-2V, I_C=-5mA$       | -0.55 | -    | -0.8 | V    |
| Transition Frequency                 | $f_T$              | $V_{CE}=-10V, I_C=-10mA$     | -     | 120  | -    | MHz  |
| Collector Output Capacitance         | $C_{ob}$           | $V_{CB}=-10V, I_E=0, f=1MHz$ | -     | 14   | -    | pF   |

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

