

GENERAL PURPOSE APPLICATION.  
SWITCHING APPLICATION.

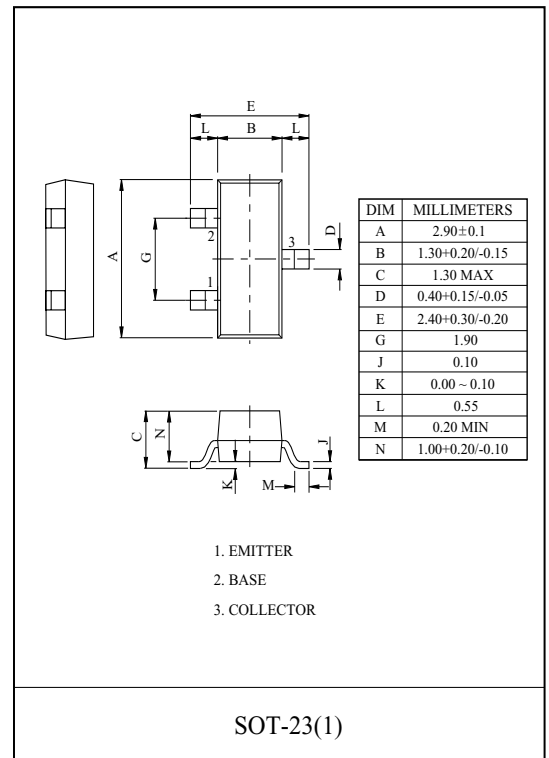
### FEATURES

- Excellent  $h_{FE}$  Linearity  
:  $h_{FE}(I_C=-0.1mA)/h_{FE}(I_C=-2mA)=0.95(Typ.)$ .
- Complementary to KTC9014SC.

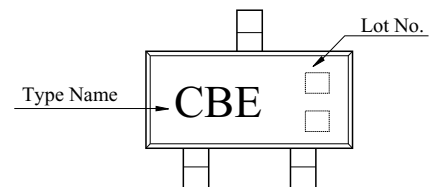
### MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC              | SYMBOL    | RATING  | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage      | $V_{CBO}$ | -70     | V    |
| Collector-Emitter Voltage   | $V_{CEO}$ | -50     | V    |
| Emitter-Base Voltage        | $V_{EBO}$ | -5      | V    |
| Collector Current           | $I_C$     | -100    | mA   |
| Collector Power Dissipation | $P_C^*$   | 350     | mW   |
| Junction Temperature        | $T_j$     | 150     | °C   |
| Storage Temperature Range   | $T_{stg}$ | -55 150 | °C   |

\*  $P_C$  : Package Mounted On 99.5% Alumina (10×8×0.6mm)



### Marking



### ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC                       | SYMBOL          | TEST CONDITION                   | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-----------------|----------------------------------|------|------|------|------|
| Collector-Base Breakdown Voltage     | $V_{(BR)CBO}$   | $I_C=-0.05mA, I_E=0$             | -70  | -    | -    | V    |
| Collector-Emitter Breakdown Voltage  | $V_{(BR)CEO}$   | $I_C=-1mA, I_B=0$                | -50  | -    | -    | V    |
| Emitter-Base Breakdown Voltage       | $V_{(BR)EBO}$   | $I_E=-0.05mA, I_C=0$             | -8   | -    | -    | V    |
| Collector Cut-off Current            | $I_{CBO}$       | $V_{CB}=-50V, I_E=0$             | -    | -    | -0.1 | uA   |
| Emitter Cut-off Current              | $I_{EBO}$       | $V_{EB}=-5V, I_C=0$              | -    | -    | -0.1 | uA   |
| DC Current Gain                      | $h_{FE}$ (Note) | $V_{CE}=-5V, I_C=1mA$            | 200  | -    | 600  |      |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$   | $I_C=-100mA, I_B=-5mA$           | -    | -    | -0.3 | V    |
| Base-Emitter Saturation Voltage      | $V_{BE(sat)}$   | $I_C=-100mA, I_B=-5mA$           | -    | -    | -1   | V    |
| Transition Frequency                 | $f_T$           | $V_{CE}=-5V, I_C=-10mA, f=30MHz$ | 150  | -    | -    | MHz  |

Note) :  $h_{FE}$  Classification C:200~600

# KTC9015SC

