

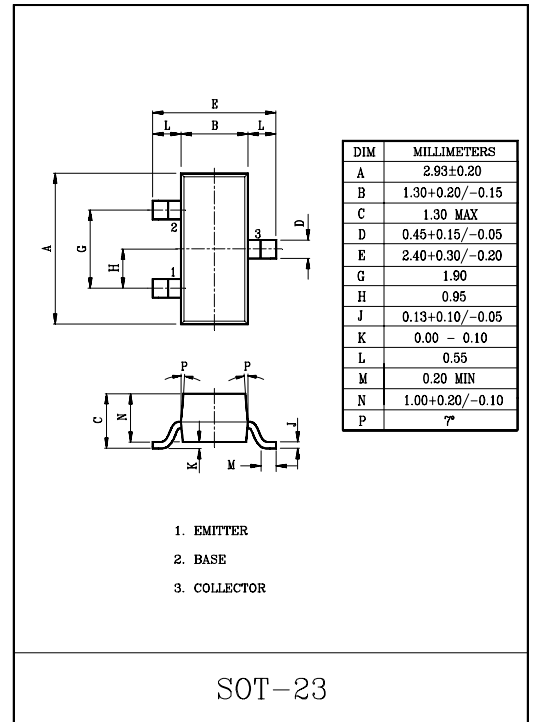
LOW FREQUENCY POWER AMPLIFIER APPLICATION.  
POWER SWITCHING APPLICATION.

### FEATURES

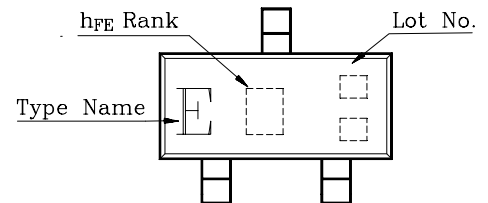
- High DC Current Gain :  $h_{FE}=100\sim 320$ .
- Low Saturation Voltage  
:  $V_{CE(sat)}=0.4V(\text{Max.})$  ( $I_C=500mA$ ,  $I_B=20mA$ ).
- Suitable for Driver Stage of Small Motor.
- Complementary to KTA1298.
- Small Package.

### MAXIMUM RATINGS ( $T_a=25^\circ C$ )

| CHARACTERISTIC              | SYMBOL    | RATING  | UNIT       |
|-----------------------------|-----------|---------|------------|
| Collector-Base Voltage      | $V_{CBO}$ | 35      | V          |
| Collector-Emitter Voltage   | $V_{CEO}$ | 30      | V          |
| Emitter-Base Voltage        | $V_{EBO}$ | 5       | V          |
| Collector Current           | $I_C$     | 800     | mA         |
| Base Current                | $I_B$     | 160     | mA         |
| Collector Power Dissipation | $P_C$     | 200     | mW         |
| Junction Temperature        | $T_j$     | 150     | $^\circ C$ |
| Storage Temperature Range   | $T_{stg}$ | -55~150 | $^\circ C$ |



### Marking



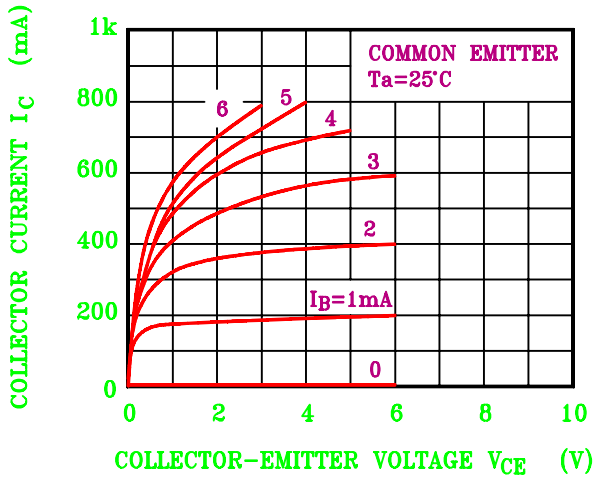
### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$ )

| 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                      | $h_{FE(1)}$<br>(Note) | $V_{CE}=1V$ , $I_C=100mA$         | 100  | -    | 320  |      |
|                                      | $h_{FE(2)}$           | $V_{CE}=1V$ , $I_C=800mA$         | 40   | -    | -    |      |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$         | $I_C=500mA$ , $I_B=20mA$          | -    | -    | 0.5  | V    |
| Base-Emitter Voltage                 | $V_{BE}$              | $V_{CE}=1V$ , $I_C=10mA$          | 0.5  | -    | 0.8  | V    |
| Transition Frequency                 | $f_T$                 | $V_{CE}=5V$ , $I_C=10mA$          | -    | 120  | -    | MHz  |
| Collector Output Capacitance         | $C_{ob}$              | $V_{CB}=10V$ , $I_E=0$ , $f=1MHz$ | -    | 13   | -    | pF   |

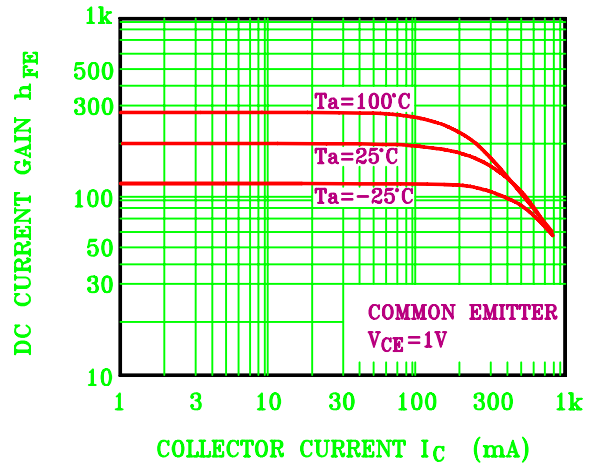
Note :  $h_{FE(1)}$  Classification      O:100~200 ,      Y:160~320

# KTC3265

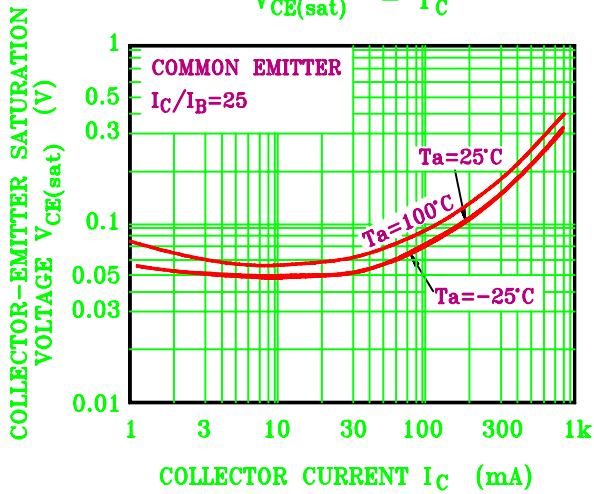
$I_C - V_{CE}$



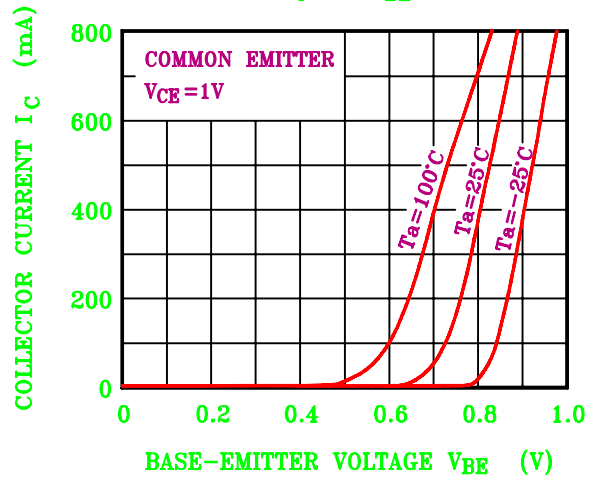
$h_{FE} - I_C$



$V_{CE(sat)} - I_C$



$I_C - V_{BE}$



$P_C - T_a$

