

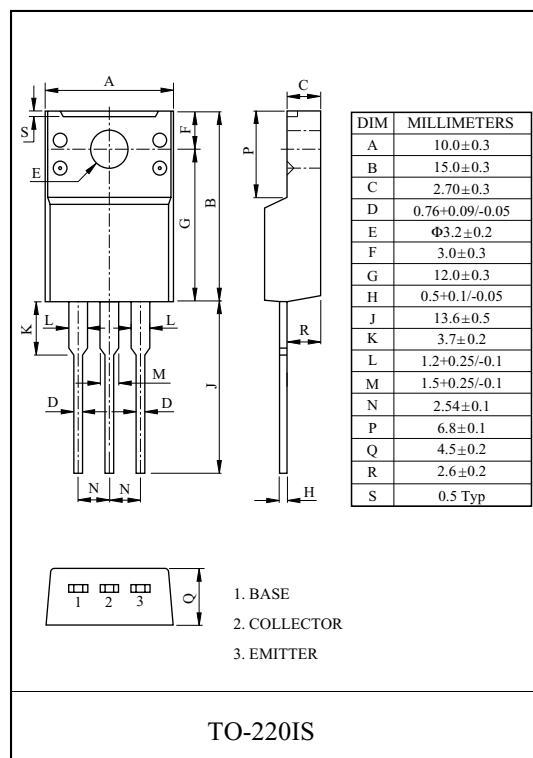
HIGH VOLTAGE APPLICATION  
TV, MONITOR VERTICAL OUTPUT APPLICATION  
DRIVER STAGE APPLICATION  
COROR TV CLASS B SOUND OUTPUT APPLICATION

### FEATURES

- High Breakdown Voltage :  $V_{CEO} = -180V(\text{Min.})$
- High Transition Frequency :  $f_T = 100\text{MHz}(\text{Typ.})$
- High Current :  $I_{C(\text{max})} = -2A.$
- Complementary to KTD2061.

### MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC                         | SYMBOL    | RATING    | UNIT |
|--|-----------|-----------|------|
| Collector-Base Voltage                 | $V_{CBO}$ | -200      | V    |
| Collector-Emitter Voltage              | $V_{CEO}$ | -180      | V    |
| Emitter-Base Voltage                   | $V_{EBO}$ | -5        | V    |
| Collector Current                      | $I_C$     | -2        | A    |
| Base Current                           | $I_B$     | -0.2      | A    |
| Collector Power Dissipation (Tc=25 °C) | $P_C$     | 20        | W    |
| Junction Temperature                   | $T_j$     | 150       | °C   |
| Storage Temperature Range              | $T_{stg}$ | -55 ~ 150 | °C   |



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

| CHARACTERISTIC                       | SYMBOL        | TEST CONDITION                | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|-------------------------------|------|------|------|------|
| Collector Cut-off Current            | $I_{CBO}$     | $V_{CB} = -200V, I_E = 0$     | -    | -    | -1.0 | μA   |
| Emitter Cut-off Current              | $I_{EBO}$     | $V_{EB} = -5V, I_C = 0$       | -    | -    | -1.0 | μA   |
| Collector-Emitter Breakdown Voltage  | $V_{(BR)CEO}$ | $I_C = -10mA, I_B = 0$        | -180 | -    | -    | V    |
| DC Current Gain                      | $h_{FE}$      | $V_{CE} = -10V, I_C = -400mA$ | 70   | -    | 240  |      |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -500mA, I_B = -50mA$   | -    | -    | -1.0 | V    |
| Base-Emitter Voltage                 | $V_{BE}$      | $V_{CE} = -5V, I_C = -500mA$  | -    | -    | -1.0 | V    |
| Transition Frequency                 | $f_T$         | $V_{CE} = -10V, I_C = -400mA$ | -    | 100  | -    | MHz  |

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

# KTB1369

