

INDUSTRIAL APPLICATIONS

Unit in mm

IGNITER APPLICATIONS.

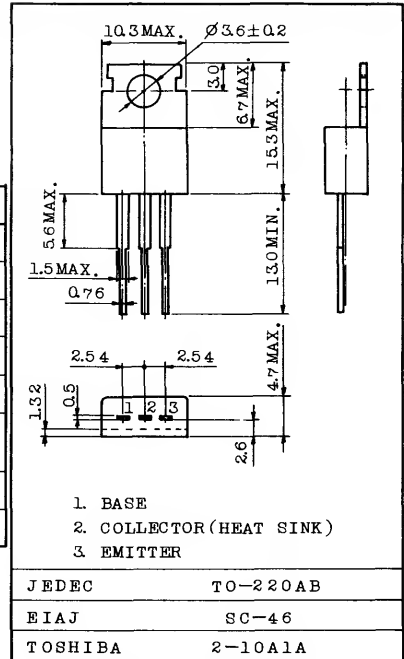
HIGH VOLTAGE SWITCHING APPLICATIONS.

FEATURES:

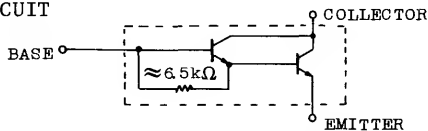
- High DC Current Gain
- $h_{FE}=2000$ (Min.) ($V_{CE}=2V, I_C=2A$)

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

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|-----------|-----------|-------------|
| Collector-Base Voltage | V_{CBO} | 300 | V |
| Collector-Emitter Voltage | V_{CEO} | 250 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 6 | A |
| Base Current | I_B | 1 | A |
| Collector Power Dissipation ($T_c=25^{\circ}C$) | P_C | 30 | W |
| Junction Temperature | T_j | 150 | $^{\circ}C$ |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | $^{\circ}C$ |



EQUIVALENT CIRCUIT



Mounting kit No. AC75
Weight : 1.9g

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

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|----------------|-----------------------------|------|------|------|---------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=300V, I_E=0$ | - | - | 0.5 | mA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=5V, I_C=0$ | - | - | 0.5 | mA |
| Collector-Emitter Sustaining Voltage | $V_{CEO(SUS)}$ | $I_C=0.5A, L=40mH$ | 250 | - | - | V |
| DC Current Gain | $h_{FE(1)}$ | $V_{CE}=2V, I_C=2A$ | 2000 | - | - | |
| | $h_{FE(2)}$ | $V_{CE}=2V, I_C=4A$ | 200 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=4A, I_B=0.04A$ | - | - | 2.0 | V |
| Base-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C=4A, I_B=0.04A$ | - | - | 2.5 | V |
| Collector Output Capacitance | C_{ob} | $V_{CB}=50V, I_E=0, f=1MHz$ | - | 35 | - | pF |
| Switching Time | Turn-on Time | t_{on} | - | 1 | - | μS |
| | Storage Time | t_{stg} | - | 8 | - | |
| | Fall Time | t_f | - | 5 | - | |

2SD1088

