

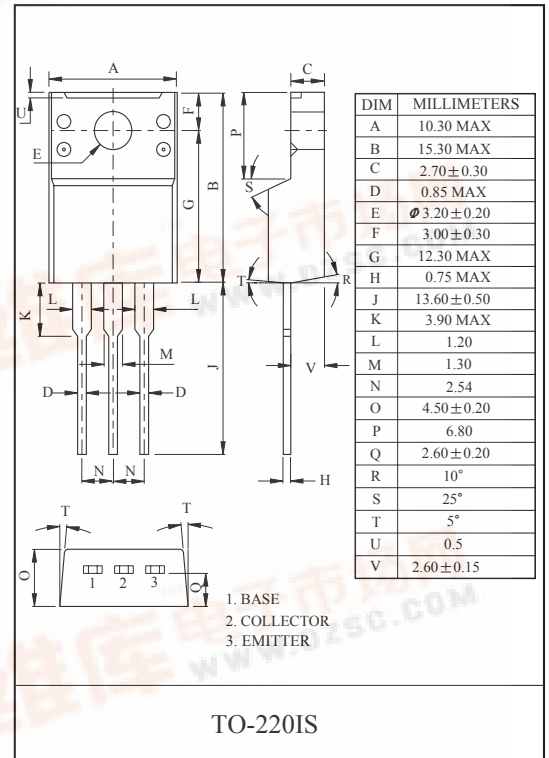
GENERAL PURPOSE APPLICATION.

FEATURES

- Complementary to TIP31CF.

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|-----------|------|
| Collector-Base Voltage | V_{CBO} | -100 | V |
| Collector-Emitter Voltage | V_{CEO} | -100 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | DC | I_C | -3 |
| | Pulse | I_{CP} | -5 |
| Base Current | I_B | -1 | A |
| Collector Power Dissipation | Ta=25°C | P_C | 2 |
| | Tc=25°C | | 25 |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | °C |



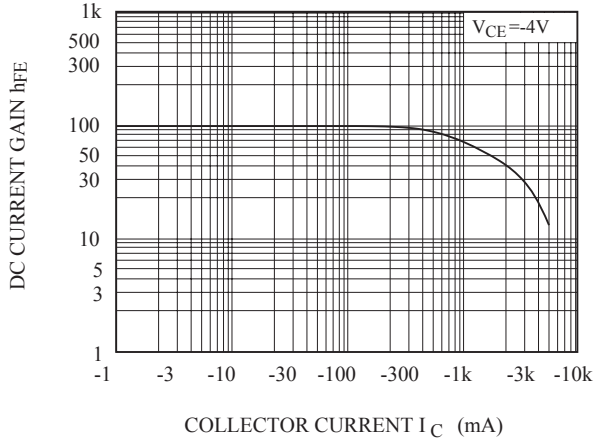
ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|----------------|-----------------------------------|------|------|------|------|
| Collector Emitter Sustaining Voltage | $V_{CEO(SUS)}$ | $I_C=-30mA, I_B=0$ | -100 | - | - | V |
| Collector Cut-off Current | I_{CEO} | $V_{CE}=-60V, I_B=0$ | - | - | -0.3 | mA |
| Collector Cut-off Current | I_{CES} | $V_{CE}=-100V, V_{EB}=0$ | - | - | -200 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{BE}=-5V, I_C=0$ | - | - | -1 | mA |
| DC Current Gain | h_{FE} | $V_{CE}=-4V, I_C=-1A$ | 25 | - | - | |
| | | $V_{CE}=-4V, I_C=-3A$ | 10 | - | 50 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-3A, I_B=-375mA$ | - | - | -1.2 | V |
| Base-Emitter On Voltage | $V_{BE(on)}$ | $V_{CE}=-4V, I_C=-3A$ | - | - | -1.8 | V |
| Transition Frequency | f_T | $V_{CE}=-10V, I_C=-500mA, f=1MHz$ | 3.0 | - | - | MHz |

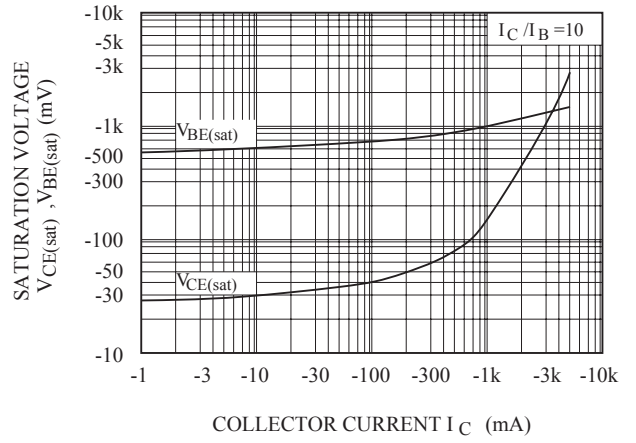


TIP32CF

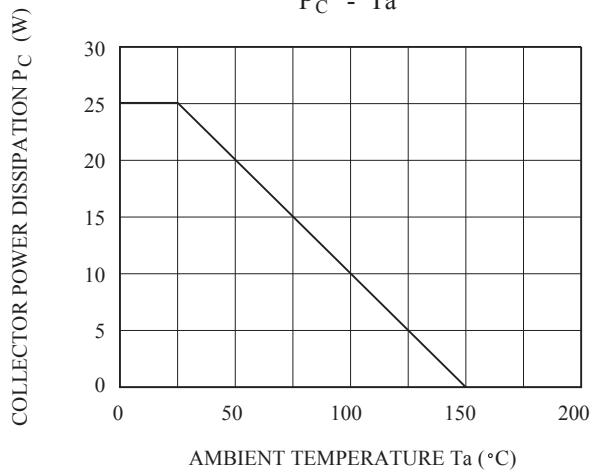
$h_{FE} - I_C$



$V_{CE(sat)}, V_{BE(sat)} - I_C$



$P_C - T_a$



SAFE OPERATING AREA

