

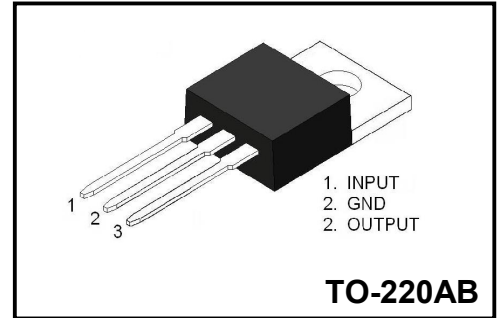
PNP Plastic-Encapsulate Transistors

Applications

↓Linear and switching industrial application

Features

↓Complementary to TIP31C



Product Specification Classification

| Part Number | Package | Marking | Pack |
|-------------|----------|-----------------|-------------|
| TIP32C | TO-220AB | YFW TIP32CXXXXX | 1000PCS/box |

Absolute Maximum Ratings (Ta=25°C)

| Parameter | Symbol | Value | Unit |
|---------------------------|------------|-----------|------|
| Collector-Base Voltage | BV_{CBO} | -100 | V |
| Collector-Emitter Voltage | BV_{CEO} | -100 | V |
| Emitter-Base Voltage | BV_{EBO} | -5 | V |
| Collector Current(DC) | I_C | -3 | A |
| Collector peak current | I_{CM} | - | A |
| Base current | I_B | -1 | A |
| Collector Dissipation | P_C | Ta =25 °C | 2 |
| | | Tc =25 °C | 40 |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature | T_{stg} | -65~150 | °C |

Electrical Characteristics (Ta=25°C)

| Parameter | Symbol | Conditions | 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} | $V_{CE} = -60V, I_E = 0$ | | | -0.3 | mA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -5V, I_E = 0$ | | | -1 | mA |
| Collector cut-off current | I_{CES} | $V_{CE} = -100V, V_{BE} = 0$ | | | -0.2 | mA |
| DC current gain* | h_{FE} | $V_{CE} = -4V, I_C = -1A$ $V_{CE} = -4V, I_C = -3A$ | 25 10 | | | |
| 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 |
| Current Gain Bandwidth Product* | f_T | $V_{CE} = -10V, I_C = -500mA$ | 3.0 | | | MHz |

* Pulse Test : $PW \leq 300\mu s, Duty\ cycle \leq 2\%$

Electrical characteristics

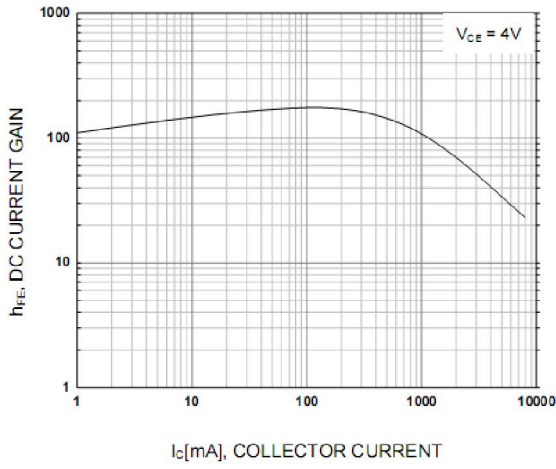


Figure 1. DC current Gain

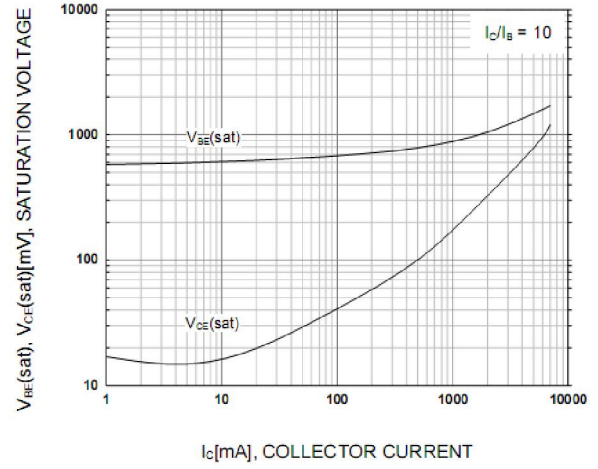


Figure 3. Base-Emitter Saturation Voltage
Collector-emitter Saturation Voltage

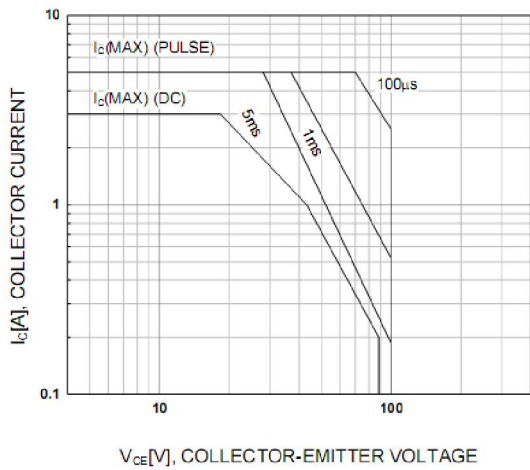


Figure 3. Safe Operating Area

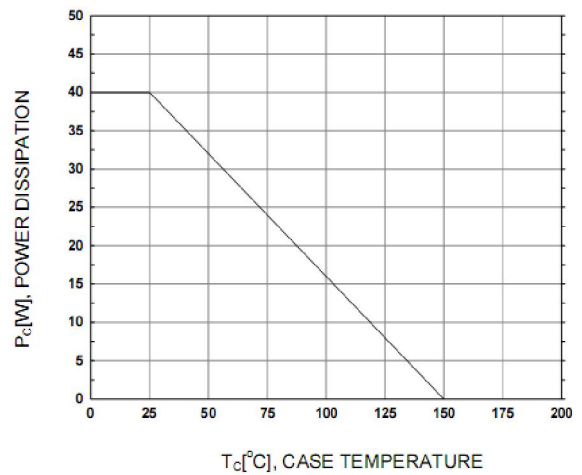


Figure 4. Power Derating

Package Dimensions

TO-220AB

| Symbol | Millimeter | | Inches | |
|--------|------------|-------|--------|-------|
| | Min. | Max. | Min. | Max. |
| A | 4.34 | 4.67 | 0.171 | 0.184 |
| A1 | 2.52 | 2.82 | 0.099 | 0.111 |
| b | 0.71 | 0.91 | 0.028 | 0.036 |
| b1 | 1.17 | 1.37 | 0.046 | 0.054 |
| c | 0.30 | 0.50 | 0.012 | 0.020 |
| c1 | 1.17 | 1.37 | 0.046 | 0.054 |
| D | 9.90 | 10.20 | 0.390 | 0.402 |
| E | 8.50 | 8.90 | 0.335 | 0.350 |
| E1 | 12.00 | 12.50 | 0.472 | 0.492 |
| e | 2.44 | 2.64 | 0.096 | 0.104 |
| e1 | 4.88 | 5.28 | 0.192 | 0.208 |
| F | 2.60 | 2.80 | 0.102 | 0.110 |
| L | 13.20 | 13.80 | 0.520 | 0.543 |
| L1 | 3.80 | 4.20 | 0.150 | 0.165 |
| Φ | 3.60 | 3.96 | 0.142 | 0.156 |

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)