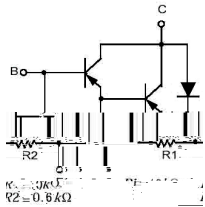


Rev. H Oct.-2018

TO-220 PNP Silicon PNP transistor in a TO-220 Plastic Package.

TIP112
Complement to TIP112.

Medium power linear switching applications.



PIN1 Base PIN 2 Collector PIN 3 Emitter

See Marking Instructions.

| Parameter | Symbol | Rating | Unit |
|--------------------------------|-----------------------------|---------|------|
| Collector to Base Voltage | V_{CBO} | -100 | V |
| Collector to Emitter Voltage | V_{CEO} | -100 | V |
| Emitter to Base Voltage | V_{EBO} | -5.0 | V |
| Collector Current - Continuous | I_C | -2.0 | A |
| Peak Collector Current | I_{CP} | -4.0 | A |
| Base Current - Continuous | I_B | -50 | mA |
| Collector Power Dissipation | $P_C(T_C=25^\circ\text{C})$ | 50 | W |
| Junction Temperature | T_j | 150 | |
| Storage Temperature Range | T_{stg} | -55 150 | |

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---------------|---|------|-----|------|------|
| Collector to Emitter Breakdown Voltage | V_{CEO} | $I_C=-30\text{mA}$ $I_B=0$ | -100 | | | V |
| Collector Cut-Off Current | I_{CEO} | $V_{CE}=-50\text{V}$ $I_B=0$ | | | -2.0 | mA |
| Collector Cut-Off Current | I_{CBO} | $V_{CB}=-100\text{V}$ $I_E=0$ | | | -1.0 | mA |
| Emitter Cut-Off Current | I_{EBO} | $V_{EB}=-5\text{V}$ $I_C=0$ | | | -2.0 | mA |
| DC Current Gain | $h_{FE(1)}$ | $V_{CE}=-4\text{V}$ $I_C=-1\text{A}$ | 1000 | | | |
| | $h_{FE(2)}$ | $V_{CE}=-4\text{V}$ $I_C=-2\text{A}$ | 500 | | | |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-2\text{A}$ $I_B=-8\text{mA}$ | | | -2.5 | V |
| Base to Emitter On Voltage | $V_{BE(on)}$ | $I_C=-2\text{A}$ $V_{CE}=-4\text{V}$ | | | -2.8 | V |
| Collector output capacitance | C_{ob} | $V_{CB}=-10\text{V}$ $I_E=0$ $f=0.1\text{MHz}$ | | | 200 | pF |



