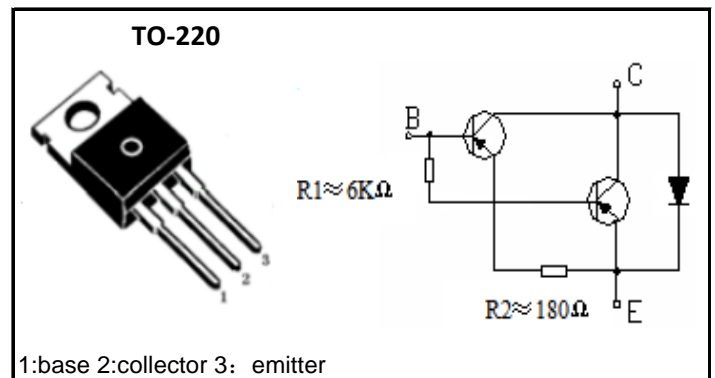


TIP127

FEATURES

- High current capability
- High switching speed
- Complementary to TIP122

Silicon PNP triode



Maximum ratings(Ta=25°C unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|--------------------------------|--------|---------|------|
| Collector-Base Voltage | VCBO | -100 | V |
| Collector-Emitter Voltage | VCEO | -100 | V |
| Emitter-Base Voltage | VEBO | -5 | V |
| Collector Current — Continuous | IC | -5 | A |
| Collector Power Dissipation | Pc | 2 | W |
| Junction Temperature | TJ | 150 | °C |
| Storage Temperature | Tstg | -55~150 | °C |

Electrical Characteristics (Ta=25°C unless otherwise noted)

| Parameter | Symbol | Test Condition | Min | Max | Unit |
|--------------------------------------|----------|-------------------|------|-------|------|
| Collector-Base Sustaining Voltage | VCBO | IC=-0.1mA IB=0 | -100 | | V |
| Collector-Emitter Sustaining Voltage | VCEO | IC=-10mA IB=0 | -100 | | V |
| Emitter-Base Breakdown Voltage | VEBO | IE=-3mA IC=0 | -5 | | V |
| Collector Cutoff Current | ICBO | VCB=-100V IE=0 | | -0.2 | mA |
| Collector Cutoff Current | ICEO | VCE=-50V IB=0 | | -0.5 | mA |
| Emitter Cutoff Current | IEBO | VEB=-5V IC=0 | | -2 | mA |
| DC Current Gain | hFE | VCE=-3V IC=-500mA | 1000 | | |
| | | VCE=-5V IC=-3A | 1000 | 15000 | |
| Collector-Emitter Saturation Voltage | VCE(sat) | IC=-3A IB=-12mA | | -2 | V |
| | | IC=-5A IB=-20mA | | -4 | V |
| Collector-Base Saturation Voltage | VBE(sat) | IC=-3A IB=-12mA | | -2.5 | V |
| Base-Emitter On Voltage | VBE(on) | VCE=-3V IC=-3A | | -2.5 | V |