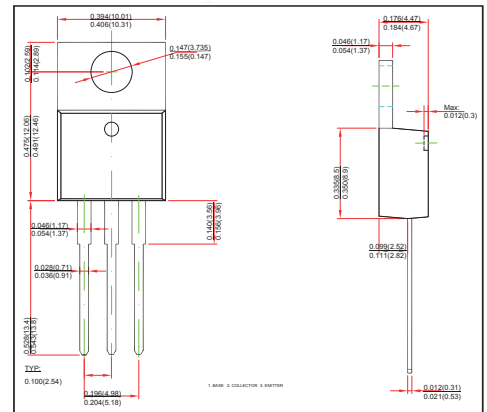


TO-220L Plastic-Encapsulate Transistors
FEATURES

- Small collector output capacitance
- Collector metal (fin) is fully covered with mold resin
- High voltage
- TRANSISTOR NPN

MECHANICAL DATA

- Case style: TO-220L molded plastic
- Mounting position: any


MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|-------------------------------|--------|-------------|------|
| Collector-Base Voltage | VCBO | 300 | V |
| Collector-Emitter Voltage | VCEO | 300 | V |
| Emitter-Base Voltage | VEBO | 7 | V |
| Collector Current -Continuous | IC | 0.1 | A |
| Collector Power Dissipation | PC | 2 | W |
| Junction Temperature | TJ | 150 | °C |
| Storage Temperature | Tstg | -55 to +150 | °C |

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------|-----------------------|-----|-----|-----|------|
| Collector-base breakdown voltage | V(BR)CBO | IC=100μA, IE=0 | 300 | | | V |
| Collector-emitter breakdown voltage | V(BR)CEO | IC=10mA, IB=0 | 300 | | | V |
| Emitter-base breakdown voltage | V(BR)EBO | IE=100μA, IC=0 | 7 | | | V |
| Collector cut-off current | ICBO | VCB=240V, IE=0 | | | 1.0 | μA |
| Emitter cut-off current | IEBO | VEB=7V, IC=0 | | | 1.0 | μA |
| DC current gain | hFE(1) | VCE=10V, IC=4mA | 20 | | | |
| | hFE(2) | VCE=10V, IC=20mA | 30 | | 200 | |
| Collector-emitter saturation voltage | VCE(sat) | IC=10mA, IB=1mA | | | 1.0 | V |
| Base-emitter saturation voltage | VBE(sat) | IC=10mA, IB=1mA | | | 1.0 | V |
| Transition frequency | fT | VCE=10V, IC=20mA | 50 | 70 | | MHz |
| Collector output capacitance | Cob | VCB=20V, IE=0, f=1MHz | 3.0 | | | pF |

RATINGS AND CHARACTERISTIC CURVES

