

## T0-92

### MAXIMUM RATINGS(Ta=25°C unless otherwise noted)

| Symbol | Parameter                   | Value   | Units |
|--------|-----------------------------|---------|-------|
| VCBO   | Collector-Base Voltage      | -120    | V     |
| VCEO   | Collector-Emitter Voltage   | -120    | V     |
| VEBO   | Emitter-Base Voltage        | -5      | V     |
| IC     | Collector Current           | -0.1    | A     |
| PC     | Collector Power Dissipation | 300     | mW    |
| Tj     | Junction Temperature        | 150     | °C    |
| Tstg   | Storage Temperature         | -55~150 | °C    |

1. EMITTER
2. COLLECTOR
3. BASE



### ELECTRICAL CHARACTERISTICS(Tamb=25°C unless otherwise specified):

| Parameter                            | Symbol   | Test conditions        | MIN  | TYP   | MAX  | UNIT |
|--------------------------------------|----------|------------------------|------|-------|------|------|
| Collector-base breakdown voltage     | V(BR)CBO | IC=-100uA, IE=0        | -120 |       |      | V    |
| Collector-emitter breakdown voltage  | V(BR)CEO | IC=-1mA, IB=0          | -120 |       |      | V    |
| Emitter-base breakdown voltage       | V(BR)EBO | IC=-100uA, IC=0        | -5   |       |      | V    |
| Collector cut-off current            | ICBO     | VCB=-120V, IE=0        |      |       | -0.1 | μA   |
| Emitter cut-off current              | IEBO     | VEB=-5V, IC=0          |      |       | -0.1 | μA   |
| DC current gain                      | HFE      | Vce=-6V, IC=-2mA       | 200  |       | 700  |      |
| Collector-emitter saturation voltage | VCE(sat) | IC=-10mA, IB=-1mA      |      |       | -0.3 | V    |
| Base-emitter voltage                 | VBE      | VCE=-6V, IC=-2mA       |      | -0.65 |      | V    |
| Transition frequency                 | fT       | VCE=-6V, IC=-1mA       |      | 100   |      | MHz  |
| Collector output capacitance         | Cob      | VCB=-10V, IE=0, f=1MHz |      | 4.0   |      | pF   |

## Electrical Characteristic Curve

