Transistors BC338

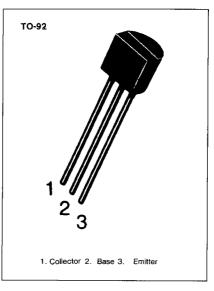


SWITCHING AND AMPLIFIER APPLICATIONS

• SUITABLE FOR AF-DRIVER STAGES AND LOW POWER OUTPUT STAGES •Complement to BC327/BC328

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

| Characteristic | Symbol | Rating | Unit |
|--|--|---|--------------------------------|
| Collector Emitter Voltage | V _{CES} | | |
| Collector Emitter Voltage | V _{CEO} | 30 | v |
| Emitter-Base Voltage Collector Current (DC) Collector Dissipation Junction Temperature Storage Temperature | V _{EBO} Ic Pc Tj Tstg | 25 5 800 625 150 ~55~150 | V V mA mW °C °C |



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| Characteristic | Symbol | Test Condition | Min | Тур | Max | Unit |
|--|---|--|-----------|-----|-------------------|----------|
| Collector Emitter Breakdown Voltage | BV _{CEO} | $I_{\rm C}$ =10mA, $I_{\rm B}$ =0 | | | | |
| Collector Emitter Breakdown Voltage | BV _{CES} | I _C =0.1mA, I _B =0 | 25 | | | v |
| Emitter Base Breakdown Voltage Collector Cutoff Current | BV _{EBO} ICES | I _E =0.1mA, I _C =0 | 30 5 | | | v v |
| DC Current Gain Collector Emitter Saturation Voltage | h _{FE} h _{FE} 2 V _{CE} (sat) | $V_{CE}=25V, I_B=0$ $V_{CE}=1V, I_C=100mA$ $V_{CE}=1V, I_C=300mA$ $I_C=500mA, I_B=50mA$ | 100 60 | 2 | 100 630 0.7 | nA V |
| Base Emitter On Voltage Current Gain Bandwidth Product | V _{BE} (on) | $V_{CE} = 1V$, $I_C = 300 \text{mA}$ $V_{CE} = 5V$, $I_C = 10 \text{mA}$, | | 100 | 1.2 | V MHz |
| Collector Base Capacitance | C _{CBO} | V _{CB} =10V, f=1 MH z | | 12 | | pF |

hFE CLASSIFICATION

| Classification | 16 | 25 | 40 |
|-------------------|---------|---------|---------|
| h _{FE} | 100-250 | 160-400 | 250-630 |
| h _{FE} 2 | 60- | 100- | 170- |

