风光欣技术资料

# D1303

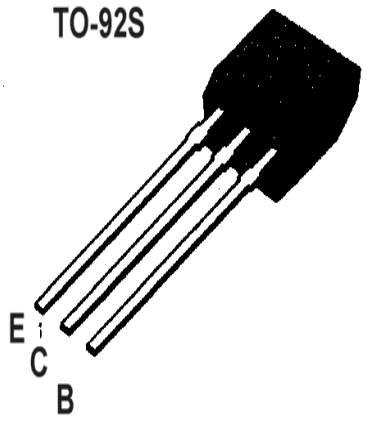
NPN Transistors

—NPN Silicon—

■■ **APPLICATION：** Audio Muting Applications.

■■ **MAXIMUM RATINGS**（Ta=25℃）

| PARAMETER | SYMBOL | RATING | UNIT |
|---|---|---|---|
| Collector-base voltage | $V_{CBO}$ | 25 | V |
| Collector-emitter voltage | $V_{CEO}$ | 20 | V |
| Emitter-base voltage | $V_{EBO}$ | 12 | V |
| Collector current | Ic | 0.3 | A |
| Base current | Ib | 0.03 | A |
| Collector Power Dissipation | Pc | 0.4 | W |
| Junction Temperature | Tj | 150 | ℃ |
| Storage Temperature Range | Tstg | -55~150 | ℃ |




■■ **ELECTRICAL CHARACTERISTICS**（Ta=25℃，RG=10Ω）

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION | | |
|---|---|---|---|---|---|---|---|---|
| Collector-Base Breakdown Voltage | BVcbo | 25 | | | V | Ic=10uA | Ie=0 | |
| Collector-Emitter Breakdown Voltage | BVceo | 20 | | | V | Ic=1mA | Ib=0 | |
| Emitter-Base Breakdown Voltage | BVebo | 12 | | | V | Ie=10uA | Ic=0 | |
| Collector Cut-off Current | Icbo | | | 0.1 | uA | Vcb=25V | Ie=0 | |
| Emitter Cut-off Current | Iebo | | | 0.1 | uA | Veb=12V | Ic=0 | |
| Base-Emitter Saturation Voltage | Vbe(sat) | | | 1 | V | Ic=0.1A | Ib=10mA | |
| Collector-Emitter Saturation Voltage | Vce(sat) | | | 0.25 | V | Ic=0.1A | Ib=1mA | |
| DC Current Gain | $h_{FE}$ | 200 | | 800 | β | Vce=2V | Ic=4mA | |
| Gain bandwidth product | $f_T$ | | 60 | | MHz | Vce=10V | Ic=1mA | |
| Common Base Output Capacitance | Cob | | 10 | | pF | Vcb=10V | Ie=0 | f=1MHz |

■■ **$h_{FE}$ Classification And Marking**

| | |
|---|---|
| Mark | D1303 |
| Classification | |
| $h_{FE}$ | 200～800 |