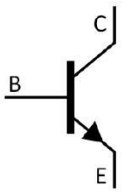
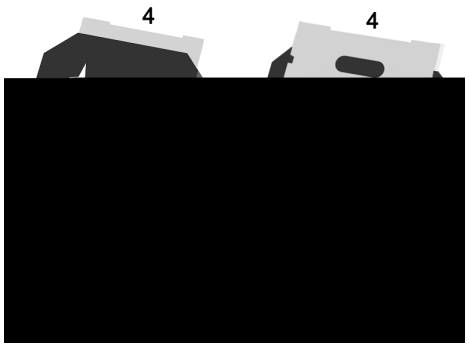
TO-252 NPN Silicon NPN transistor in a TO-252 Plastic Package.

AEC-Q101

High collector-Emitter breakdown voltage, Suitable for transformer, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

High voltage general purpose applications, Meet the stringent requirements of automotive applications.



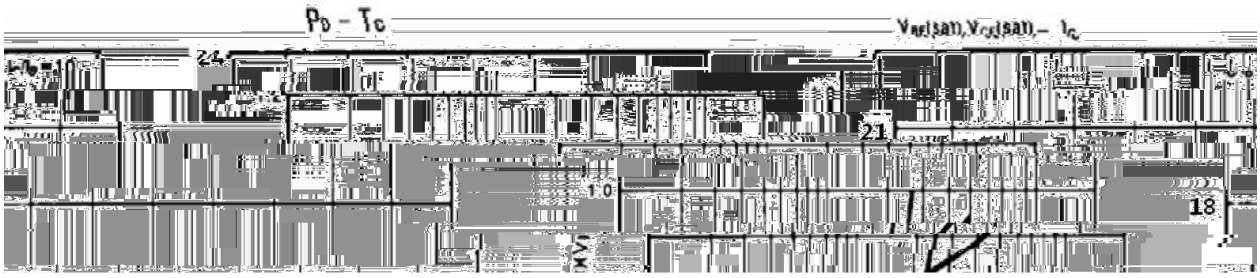



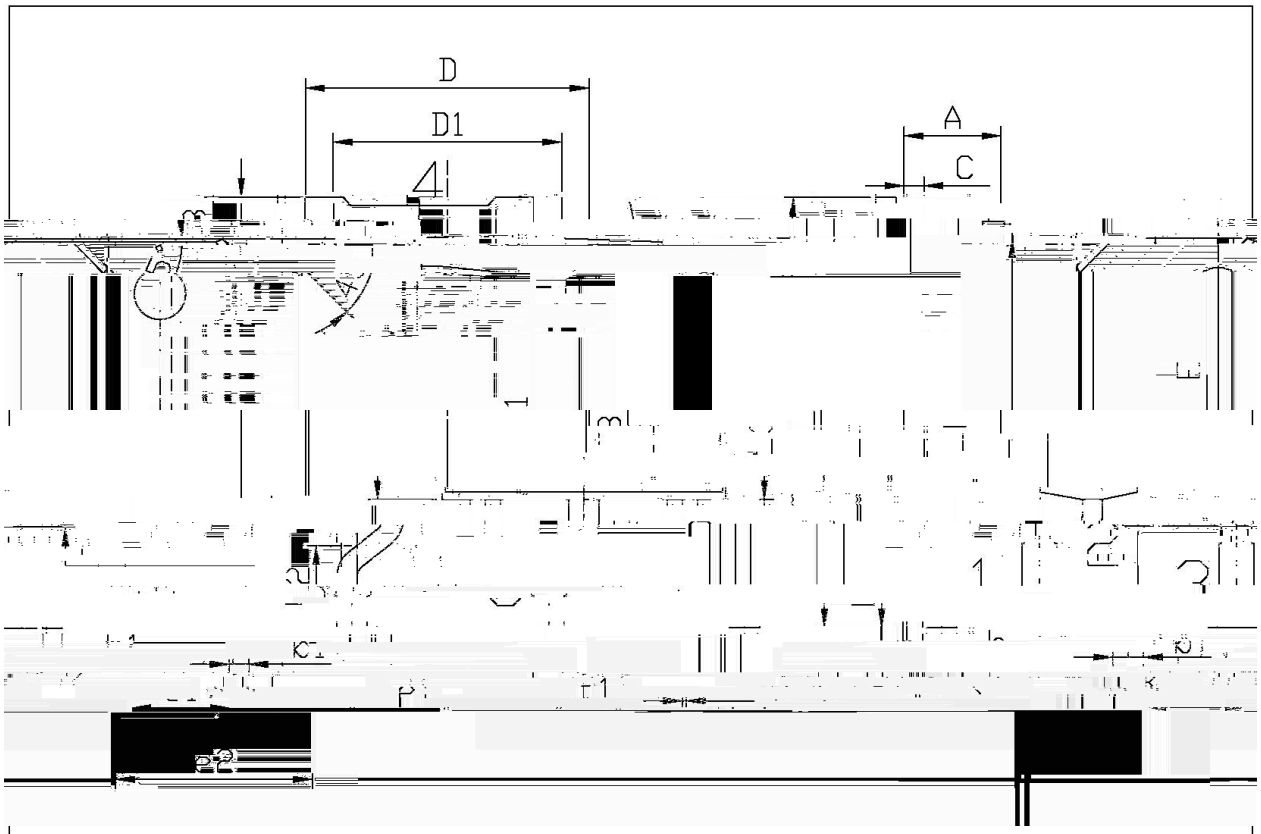

PIN1 Base PIN 2,4 Collector PIN 3 Emitter

See Marking Instructions.

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | 300 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | 300 | V |
| Emitter to Base Voltage | $V_{EBO}$ | 5.0 | V |
| Collector Current - Continuous | $I_C$ | 500 | mA |
| Collector Power Dissipation | $P_C$ | 1.56 | W |
| Collector Power Dissipation | $P_C(T_C=25$ ) | 15 | W |
| Junction Temperature | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -55 150 | |

| Parameter | Symbol | Test Conditions | Min | Typ |
|---|---|---|---|---|

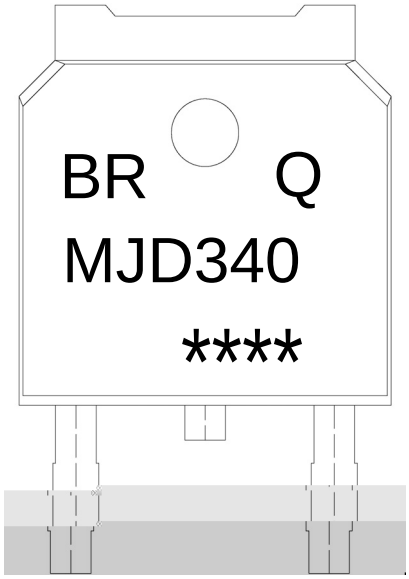

P_D – T_C
V_BE(sat), V_CE(sat) – I_C
24
21
18
10




单位：mm

| Dimensions In Millimeters | | | Dimensions In Millimeters | | |
|---|---|---|---|---|---|
| | Min. | Max. | | Min. | Max. |
| E | 6.35 | 6.75 | A | 2.20 | |
| B | 0.95 | 1.25 | | | |
| b | 0.70 | | | | |
| C | 0.45 | 0.55 | L2 | 1.70 | 2.00 |
| D1 | 5.10 | 5.50 | K | 0.00 | |

TO-252




BR

Q

MJD340

****

Note:

| | |
|---|---|
| BR: | Company Code |
| Q: | Automobile halogen-free product Code |
| MJD340: | Product Type |
| ****: | Lot No. Code, code change with Lot No |