

Model : BT152
TO-220 appearance
chart

Shape: TO-220

Product name: unidirectional thyristor

Polarity: Three pins from left to right 1: K 2: A 3: G
Uses: Widely used in all kinds of universal switch, small motor controller, color light controller, leakage protector, lamp relay driver, logic integrated circuit driver, high power thyristor gate driver, motorcycle igniter line power control.



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Limit range (TA=25 unless otherwise specified)

| Project | Symbol | Rated Value | Unit |
|----------------------------------|--------|-------------|------|
| Dispel duplicate peak voltage | VDRM | 800 | V |
| Repeated repeated peak voltage | VRRM | 800 | V |
| Plug -in average current | IT | 13 | A |
| On-state no repeat surge current | ITSM | 20 | A |
| Knot temperature | Tj | 125 | °C |
| Storage temperature | Tstg | -40~150 | °C |

Electro -parameter characteristics (TA = 25 °C unless otherwise regulations)

| Parameters | Symbol | Test condition | Mini | Max | Unit |
|--|---------|-----------------------|------|------|------|
| Dispel duplicate peak voltage | VDRM | | 800 | | V |
| Reverse repeat peak voltage | VRRM | | 800 | | V |
| Repeat peak blocking current | IDRM | VD=VDRM | | 0.01 | mA |
| Reverse peak blocking current | IRRM | VR=VRRM | | 0.01 | mA |
| Peak on-state voltage | VTM | IT=12A | | 1.7 | V |
| Maintain current | IH | IT=500mA | | 30 | mA |
| Holding current | IL | IG=1.2 IGT | | 40 | mA |
| Gate level trigger current | IGT | Vd=12v RL=100Ω | | 20 | mA |
| Gate level trigger voltage | VGT | Vd=12v RL=100Ω | | 1.2 | V |
| Critical off-state voltage increase rate | dv/dt | VD=0.67VDRM, Tj=125°C | 200 | | V/μS |