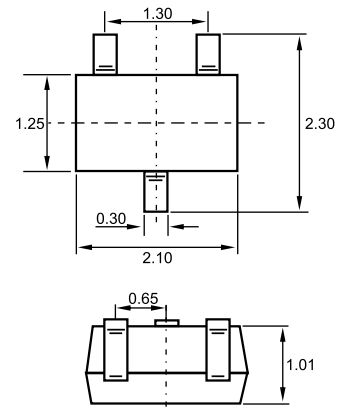


### SOT-323



Dimensions in inches and (millimeters)

## Features

- ✧ For types of packaging are available.
- ✧ High speed switching.
- ✧ Suitable for high packing density layout.
- ✧ High reliability.

## Applications

- ✧ For general purpose switching applications.

## Ordering Information

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| DAN202U  | N       | SOT-323      |

## MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Parameter                           | Symbol    | Limits   | Unit |
|-------------------------------------|-----------|----------|------|
| Non-Repetitive Peak reverse voltage | $V_{RM}$  | 80       | V    |
| Diode reverse voltage               | $V_R$     | 80       | V    |
| Forward continuous Current (peak)   | $I_F$     | 300      | mA   |
| Average forward current             | $I_O$     | 100      | mA   |
| Power Dissipation                   | $P_d$     | 200      | mW   |
| Junction temperature                | $T_j$     | 150      | °C   |
| Storage temperature range           | $T_{stg}$ | -65-+150 | °C   |



**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

| Parameter                       | Symbol      | Test conditions   | MIN | MAX | UNIT    |
|---------------------------------|-------------|-------------------|-----|-----|---------|
| Reverse breakdown voltage       | $V_{(BR)R}$ | $I_R=100\mu A$    | 80  |     | V       |
| Reverse voltage leakage current | $I_R$       | $V_R=70V$         |     | 0.1 | $\mu A$ |
| Forward voltage                 | $V_F$       | $I_F=100mA$       |     | 1.2 | V       |
| Diode capacitance               | $C_D$       | $V_R=6V$ $f=1MHz$ |     | 3.5 | pF      |
| Reverse recovery time           | $t_{rr}$    | $V_R=6V, I_F=5mA$ |     | 4   | nS      |

**TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

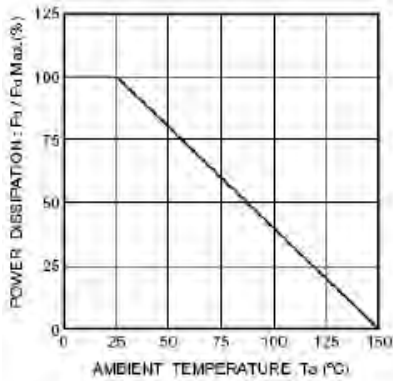


Fig.1 Power attenuation curve

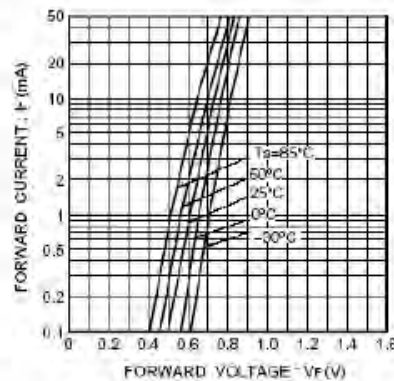


Fig.2 Forward characteristics (P Type)

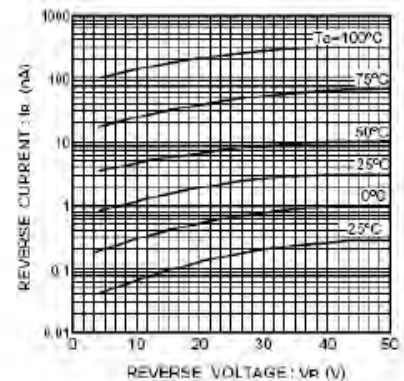


Fig.3 Reverse characteristics (P Type)

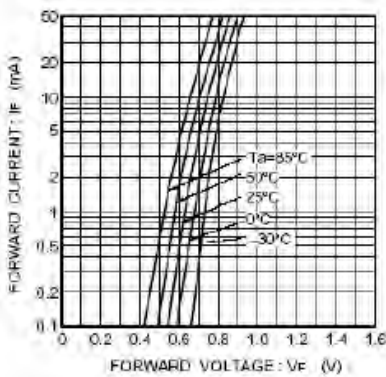


Fig.4 Forward characteristics (N Type)

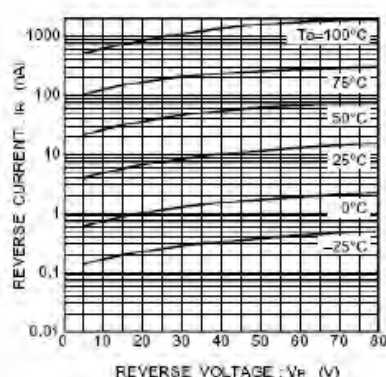


Fig.5 Reverse characteristics (N Type)

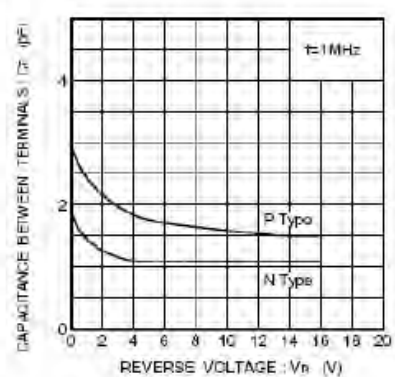


Fig.6 Capacitance between terminals characteristics