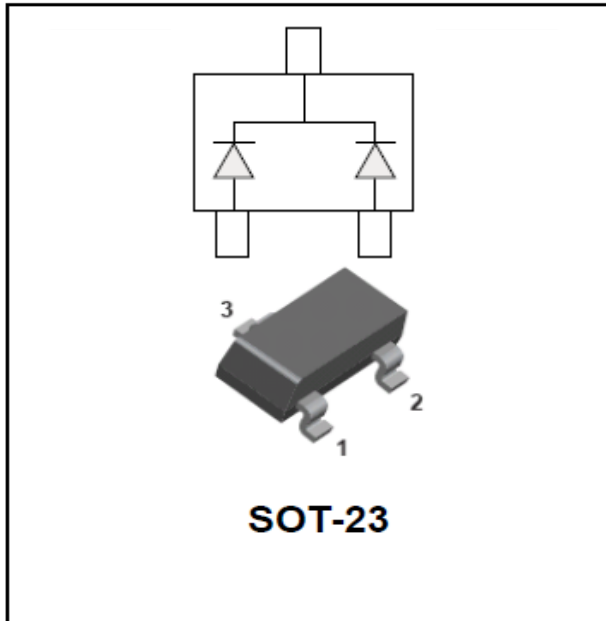


## Dual Switching Diode



### Features

- Epoxy meets UL-94 V-0 flammability rating
- Fast switching speed
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion

### Mechanical Data

- **Package:** SOT-23
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** N

### ■ Maximum Rating ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

| Item                         | Symbol    | Unit             | Value       |
|------------------------------|-----------|------------------|-------------|
| Peak Reverse Voltage         | $V_{RRM}$ | V                | 80          |
| Reverse Voltage              | $V_R$     | V                | 80          |
| Forward Continuous Current   | $I_F$     | mA               | 100         |
| Peak Forward Surge Current   | $I_{FSM}$ | mA               | 1000        |
| Power Dissipation            | $P_D$     | mW               | 200         |
| Maximum junction temperature | $T_j$     | $^\circ\text{C}$ | 150         |
| Storage Temperature          | $T_{STG}$ | $^\circ\text{C}$ | -55 to +150 |

### ■ Ordering Information (Example)

| PREFERRED P/N | PACKING CODE | UNIT WEIGHT(g)    | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---------------|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| DAN202        | F2           | Approximate 0.008 | 3000                 | 30000                   | 120000                     | 7" reel       |

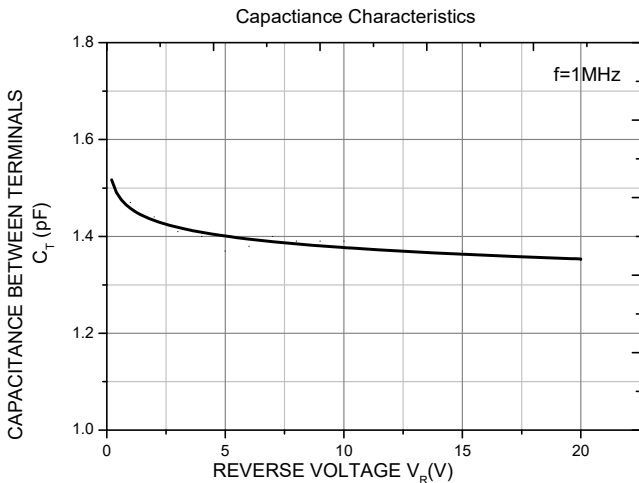
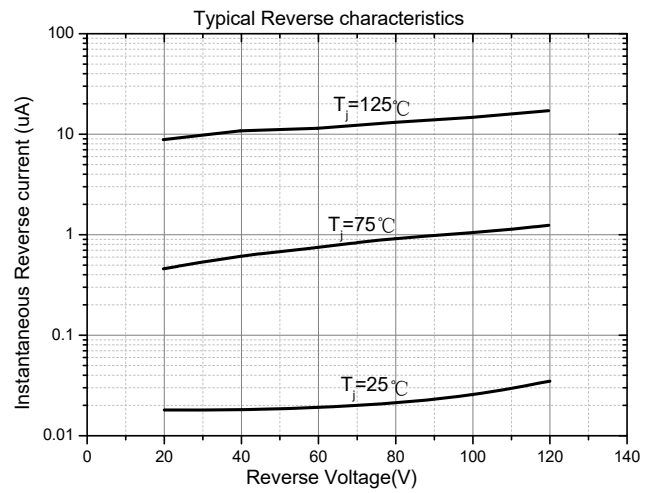
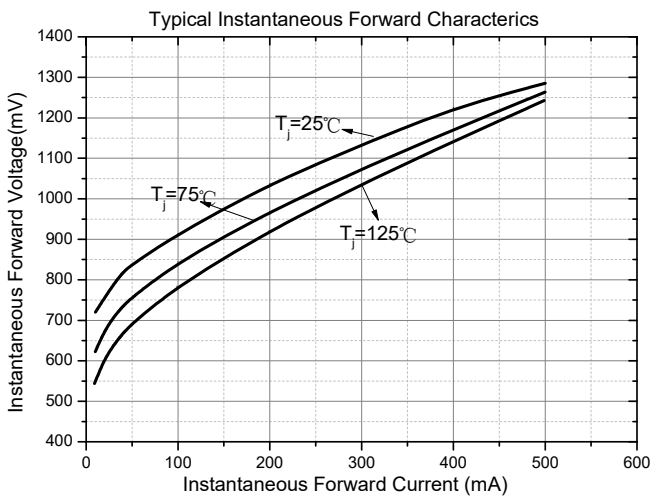


# DAN202

## ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified, Per Leg)

| Item                                  | Symbol          | Unit | Conditions   | Value |
|---------------------------------------|-----------------|------|--|-------|
| Minimum Reverse Voltage               | V <sub>R</sub>  | V    | I <sub>R</sub> =100uA  | 80    |
| Maximum Instantaneous Forward Voltage | V <sub>F</sub>  | V    | I <sub>F</sub> =100mA  | 1.2   |
| Maximum DC Reverse Current            | I <sub>R</sub>  | uA   | V <sub>R</sub> =70V  | 0.1   |
| Typical Junction Capacitance          | C <sub>J</sub>  | pF   | f=1.0MHz, V <sub>R</sub> =6V   | 3.5   |
| Maximum Reverse Recovery Time         | T <sub>rr</sub> | ns   | I <sub>F</sub> = I <sub>R</sub> =10mA, R <sub>L</sub> =100Ω,<br>I <sub>rr</sub> =0.1* I <sub>R</sub> | 4     |

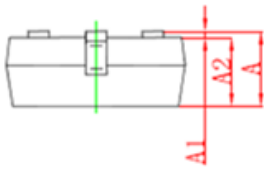
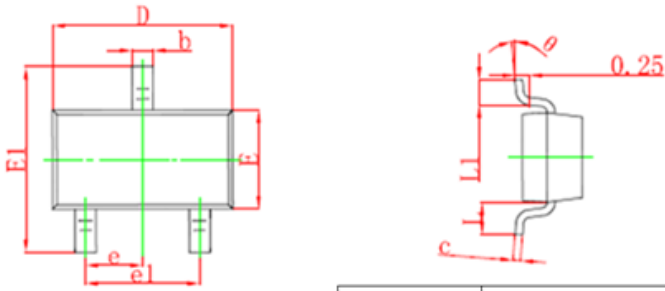
## ■ Typical Characteristics





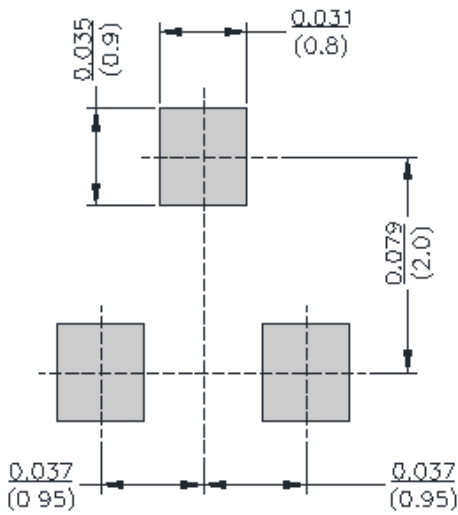
# DAN202

## ■SOT-23 Package Outline Dimensions



| Symbol | Dimensions In Millimeters |       | Dimensions In Inches |       |
|--------|---------------------------|-------|----------------------|-------|
|        | Min                       | Max   | Min                  | Max   |
| A      | 0.900                     | 1.150 | 0.035                | 0.045 |
| A1     | 0.000                     | 0.100 | 0.000                | 0.004 |
| A2     | 0.900                     | 1.050 | 0.035                | 0.041 |
| b      | 0.300                     | 0.500 | 0.012                | 0.020 |
| c      | 0.100                     | 0.200 | 0.004                | 0.008 |
| D      | 2.800                     | 3.000 | 0.110                | 0.118 |
| E      | 1.200                     | 1.400 | 0.047                | 0.055 |
| E1     | 2.250                     | 2.550 | 0.089                | 0.100 |
| e      | 0.950TYP                  |       | 0.037TYP             |       |
| e1     | 1.800                     | 2.000 | 0.071                | 0.079 |
| L      | 0.550REF                  |       | 0.022REF             |       |
| L1     | 0.300                     | 0.500 | 0.012                | 0.020 |
| θ      | 0°                        | 8°    | 0°                   | 8°    |

## ■SOT-23 Suggested Pad Layout





## DAN202

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