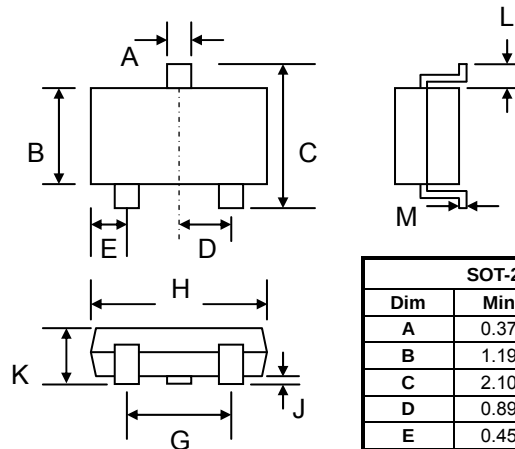


### Features

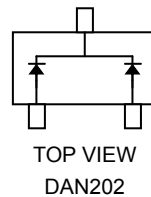
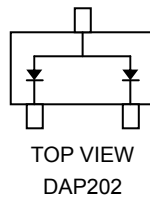
- Dual Diode Common Anode and Cathode
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Plastic Material – UL Recognition Flammability Classification 94V-0

### Mechanical Data

- Case: SOT-23, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagrams Below
- Weight: 0.008 grams (approx.)
- Marking: Device Code, See Page 3
- Mounting Position: Any
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**



| SOT-23               |       |       |
|----------------------|-------|-------|
| Dim                  | Min   | Max   |
| A                    | 0.37  | 0.51  |
| B                    | 1.19  | 1.40  |
| C                    | 2.10  | 2.50  |
| D                    | 0.89  | 1.05  |
| E                    | 0.45  | 0.61  |
| G                    | 1.78  | 2.05  |
| H                    | 2.65  | 3.05  |
| J                    | 0.013 | 0.15  |
| K                    | 0.89  | 1.10  |
| L                    | 0.45  | 0.61  |
| M                    | 0.076 | 0.178 |
| All Dimensions in mm |       |       |



### Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

| Characteristic                                        | Symbol                             | Value       | Unit |
|-------------------------------------------------------|------------------------------------|-------------|------|
| Peak Repetitive Reverse Voltage                       | V <sub>RRM</sub>                   | 80          | V    |
| Working Peak Reverse Voltage<br>DC Blocking Voltage   | V <sub>RWM</sub><br>V <sub>R</sub> | 80          | V    |
| Forward Continuous Current                            | I <sub>FM</sub>                    | 300         | mA   |
| Average Rectified Output Current                      | I <sub>O</sub>                     | 100         | mA   |
| Non-Repetitive Peak Forward Surge Current @ t = 1.0μs | I <sub>FSM</sub>                   | 4.0         | A    |
| Operating and Storage Temperature Range               | T <sub>J</sub> , T <sub>STG</sub>  | -55 to +150 | °C   |

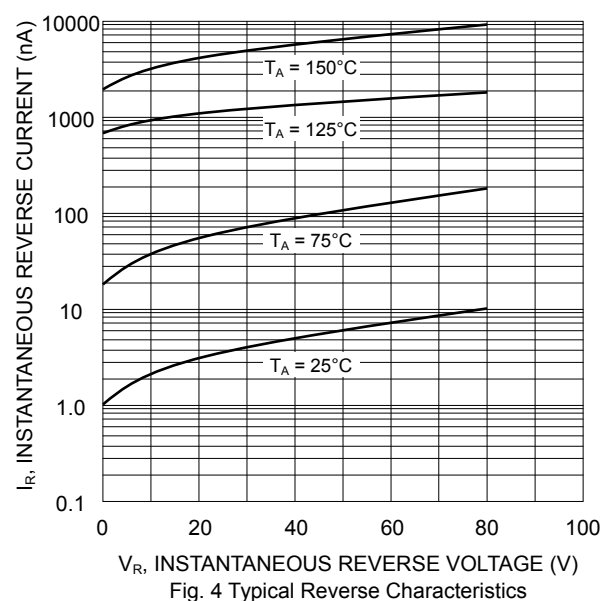
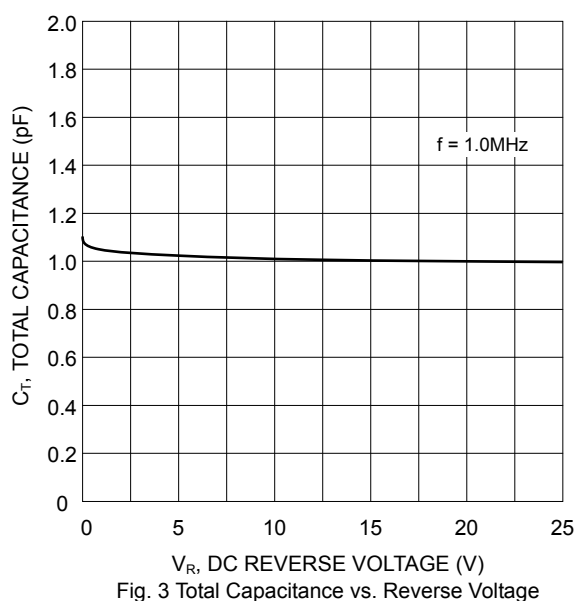
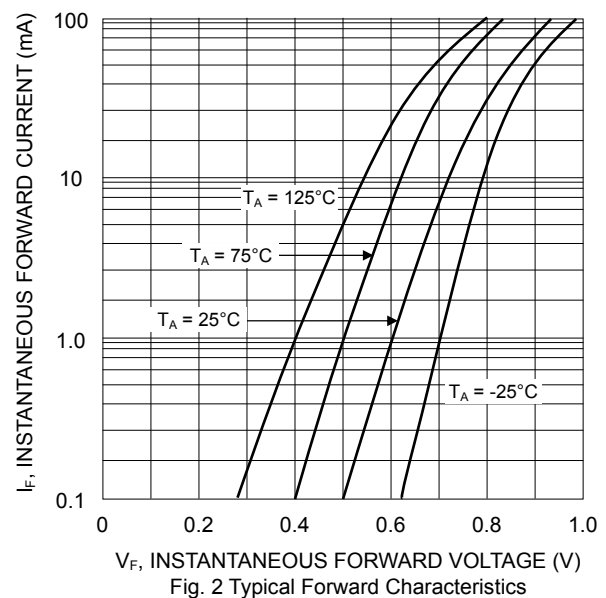
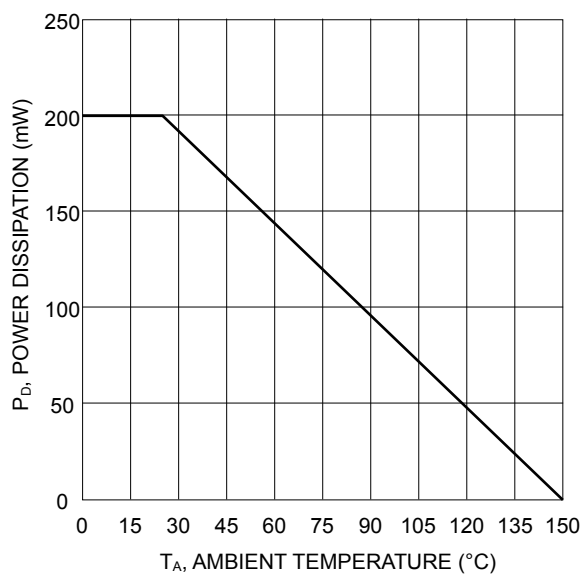
### Thermal Characteristics

| Characteristic             | Symbol         | Value | Unit |
|----------------------------|----------------|-------|------|
| Power Dissipation (Note 1) | P <sub>D</sub> | 200   | mW   |

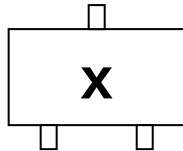
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

## Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

| Characteristic                                                                              | Symbol   | Min. | Typ. | Max. | Unit |
|---------------------------------------------------------------------------------------------|----------|------|------|------|------|
| Forward Voltage Drop @ $I_F = 100\text{mA}$                                                 | $V_{FM}$ |      |      | 1.2  | V    |
| Peak Reverse Leakage Current @ $V_R = 70\text{V}$                                           | $I_{RM}$ |      |      | 100  | nA   |
| Diode Capacitance ( $V_R = 6.0\text{V}$ , $f = 1.0\text{MHz}$ )                             | $C_D$    |      |      | 3.5  | pF   |
| Reverse Recovery Time ( $I_F = I_R = 5.0\text{mA}$ , $V_R = 6\text{V}$ , $R_L = 50\Omega$ ) | $t_{rr}$ |      |      | 4.0  | nS   |



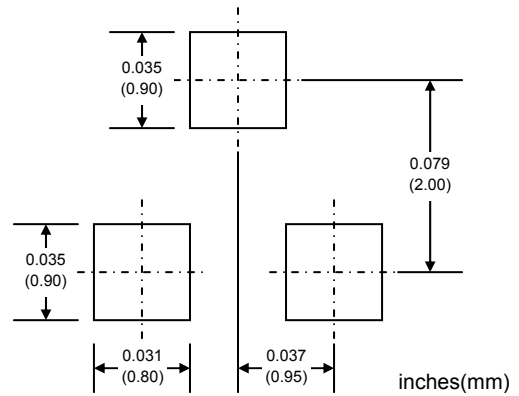
## MARKING INFORMATION



x = Device Code, See Table Below

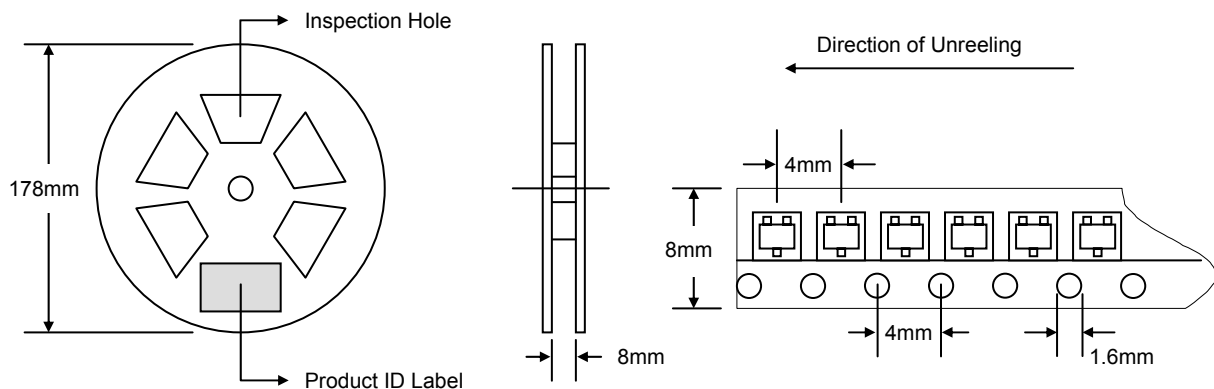
| DAP202 | DAN202 |
|--------|--------|
| P      | N      |

## RECOMMENDED FOOTPRINT



## PACKAGING INFORMATION

### TAPE & REEL



| Reel Diameter (mm) | Quantity (PCS) | Inner Box Size L x W x H (mm) | Quantity (PCS) | Carton Size L x W x H (mm) | Quantity (PCS) | Approx. Gross Weight (KG) |
|--------------------|----------------|-------------------------------|----------------|----------------------------|----------------|---------------------------|
| 178                | 3,000          | 187 x 187 x 65                | 15,000         | 390 x 240 x 420            | 150,000        | 10.0                      |

**Note:** 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.  
2. Components are packed in accordance with EIA standard 481-1 and 481-2.

## ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| DAP202-T1   | SOT-23       | 3000/Tape & Reel  |
| DAN202-T1   | SOT-23       | 3000/Tape & Reel  |

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, DAP202-T1-LF.**

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**WARNING:** DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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