

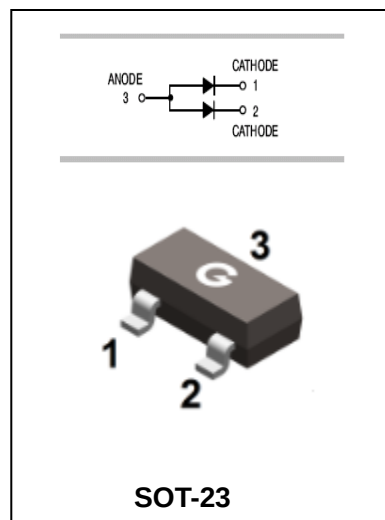
## Dual surface mount switching diode

**TDAP202**

### FEATURES

- High speed
- High reliability
- Suitable for high packing density layout
- RoHS compliant with Halogen-free
- Qualified to AEC-Q101 Standards

**HF**



### APPLICATIONS

- Ultra high speed switching
- Silicon epitaxial planar

### ORDERING INFORMATION

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| TDAP202  | P       | SOT-23       |

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

| Parameter                                 | Symbol      | Limits      | Unit |
|-------------------------------------------|-------------|-------------|------|
| Non-Repetitive Peak reverse voltage       | $V_{RM}$    | 80          | V    |
| DC Reverse Voltage                        | $V_R$       | 80          | V    |
| Forward continuous Current(Single)        | $I_{FM}$    | 300         | mA   |
| Average rectified forward current(Single) | $I_O$       | 100         | mA   |
| Surge Current (t=1.0us)                   | $I_{surge}$ | 4           | A    |
| Power Dissipation                         | $P_D$       | 200         | mW   |
| Junction temperature                      | $T_j$       | -55 to +150 | °C   |
| Storage temperature range                 | $T_{stg}$   | -55 to +150 | °C   |

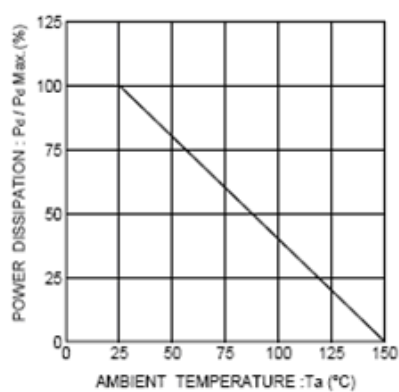
## Dual surface mount switching diode

## TDAP202

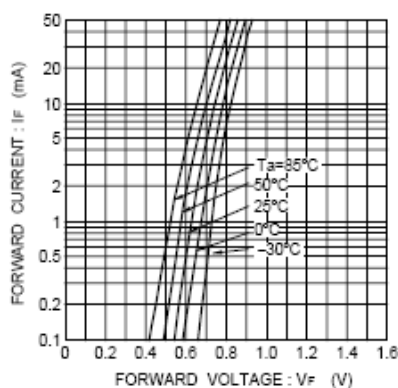
### ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

| Parameter                       | Symbol   | Test conditions                               | MIN | MAX | UNIT          |
|---------------------------------|----------|-----------------------------------------------|-----|-----|---------------|
| Reverse voltage leakage current | $I_R$    | $V_R=70\text{V}$                              |     | 0.1 | $\mu\text{A}$ |
| Forward voltage                 | $V_F$    | $I_F=100\text{mA}$                            |     | 1.2 | V             |
| Total capacitance               | $C_T$    | $V_R=6\text{V}, f=1\text{MHz}$                |     | 3.5 | pF            |
| Reverse recovery time           | $t_{rr}$ | $I_F=5\text{mA}, V_R=6\text{V}, R_L=50\Omega$ |     | 4   | ns            |

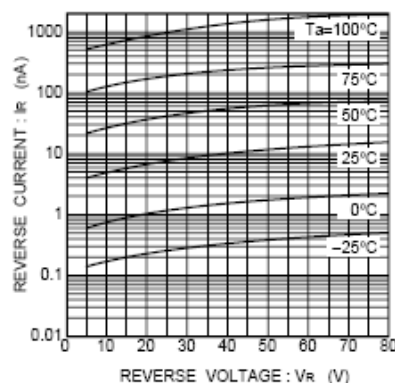
### TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



Power attenuation curve



Forward characteristics



Reverse characteristics

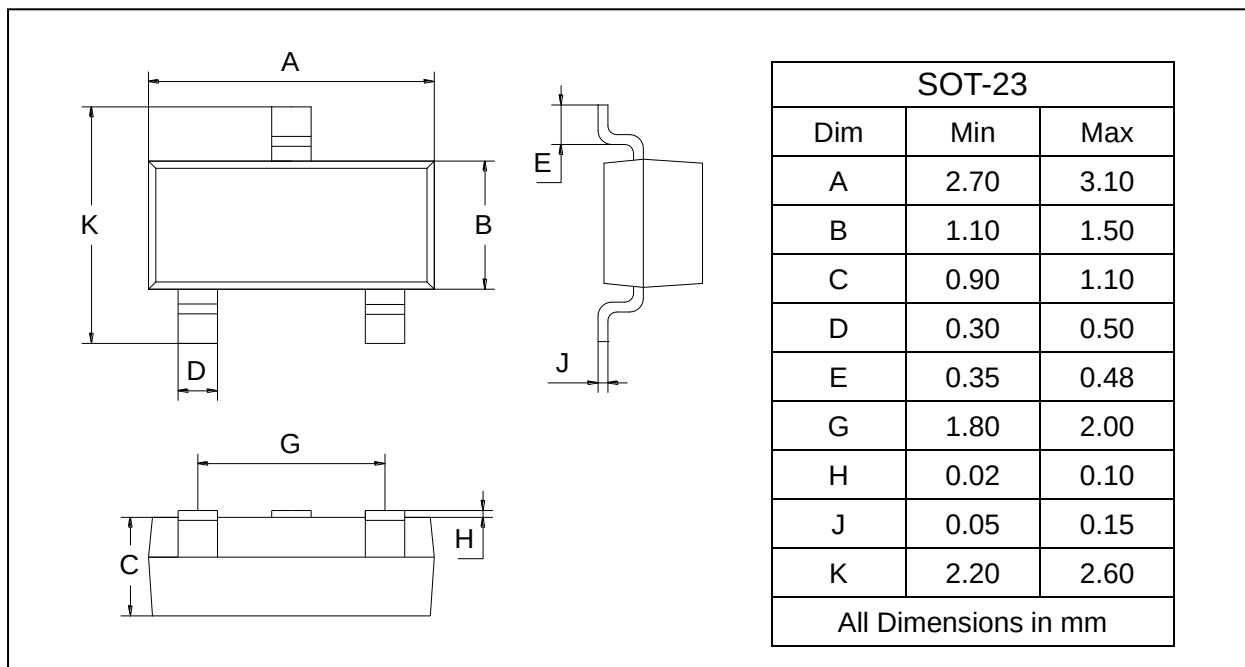
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**TDAP202**

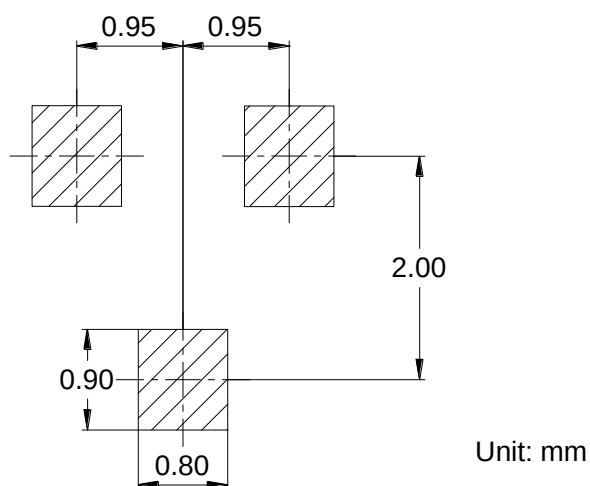
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



### SOLDERING FOOTPRINT



### PACKAGE INFORMATION

| Device  | Package | Shipping               |
|---------|---------|------------------------|
| TDAP202 | SOT-23  | 3000 pcs / Tape & Reel |