

### Features

- Low forward voltage drop
- Fast switching speed
- Low capacitance
- Guard ring construction for transient protection

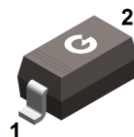
HF

### Typical Applications

- Surface mount fast switching schottky diode

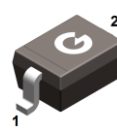
### Mechanical Data

- Case: SOD-123, SOD-323, DFN1006-2
- Terminals: solderable per MIL-STD-202, Method 208



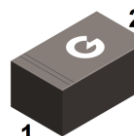
1N5711W

SOD-123



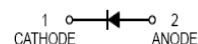
1N5711WS

SOD-323



1N5711L

DFN1006-2



### Ordering Information

| Part Number | Package   | Shipping                | Marking Code |
|-------------|-----------|-------------------------|--------------|
| 1N5711W     | SOD-123   | 3000 pcs / Tape & Reel  | SA           |
| 1N5711WS    | SOD-323   | 3000 pcs / Tape & Reel  | SA           |
| 1N5711L     | DFN1006-2 | 10000 pcs / Tape & Reel | SA           |

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

| Parameter                       | Symbol              | Value | Unit |
|---------------------------------|---------------------|-------|------|
| Peak Repetitive Reverse Voltage | V <sub>RRM</sub>    | 70    | V    |
| Working Peak Reverse Voltage    | V <sub>RWM</sub>    |       |      |
| DC Reverse Voltage              | V <sub>R</sub>      |       |      |
| RMS Reverse Voltage             | V <sub>R(RMS)</sub> | 49    | V    |
| Forward Continuous Current      | I <sub>F</sub>      | 15    | mA   |

### Thermal Characteristics

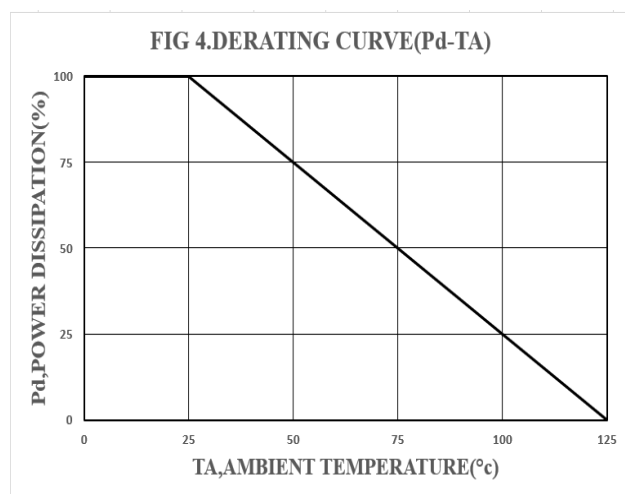
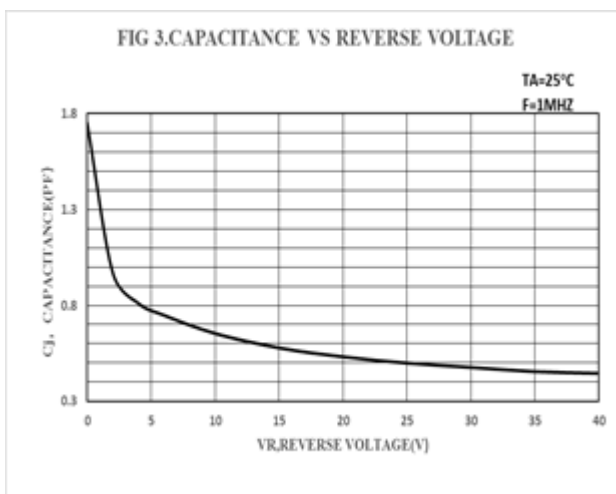
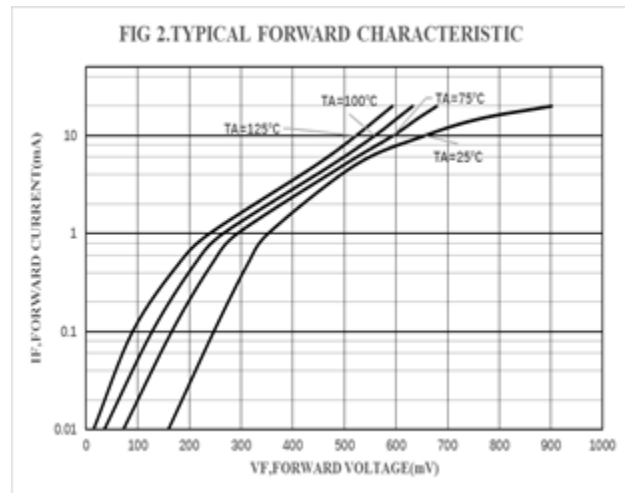
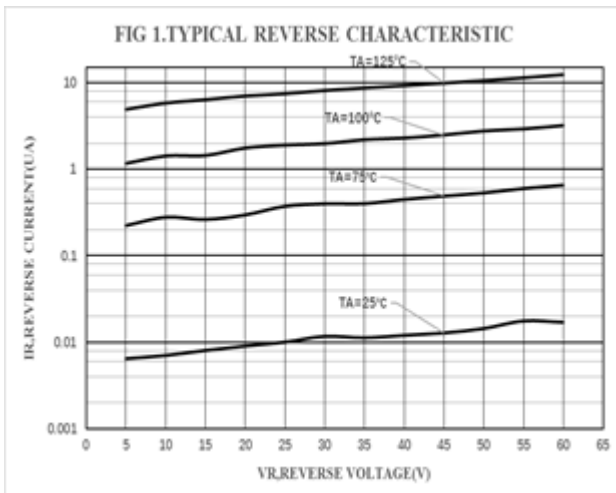
| Parameter                            | Symbol             | 1N5711W     | 1N5711WS | 1N5711L | Unit  |
|--------------------------------------|--------------------|-------------|----------|---------|-------|
| Power dissipation                    | P <sub>D</sub>     | 400         | 200      | 100     | mW    |
| Typical thermal resistance per leg   | R <sub>ΘJA</sub> * | 250         | 500      | 1000    | °C /W |
| Operating junction temperature range | T <sub>J</sub>     | -55 to +125 |          |         | °C    |
| Storage temperature range            | T <sub>STG</sub>   | -55 to +150 |          |         | °C    |

\* Part mounted on FR-4 board with recommended pad layout

### Electrical Characteristics (@T<sub>A</sub>=25°C unless otherwise specified)

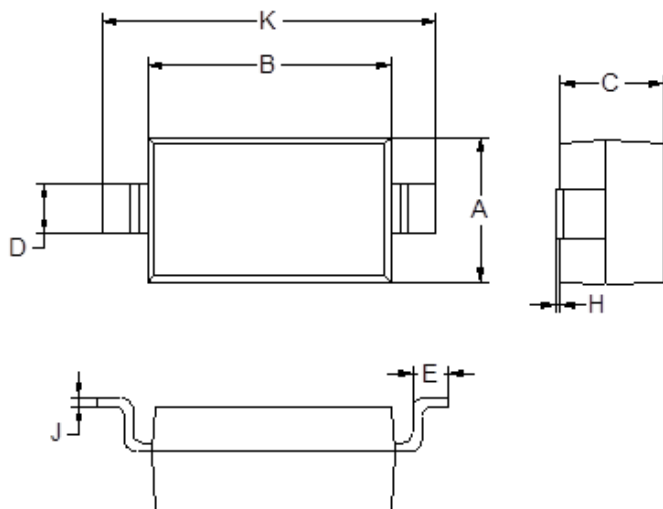
| Parameter                     | Symbol              | Conditions                                                                                        | Min | Typ | Max  | Unit |
|-------------------------------|---------------------|---------------------------------------------------------------------------------------------------|-----|-----|------|------|
| Reverse Breakdown Voltage     | V <sub>(BR)</sub> R | I <sub>R</sub> =10μA                                                                              | 70  | -   | -    | V    |
| Forward Voltage               | V <sub>F</sub>      | I <sub>F</sub> =1mA                                                                               | -   | -   | 0.41 | V    |
|                               |                     | I <sub>F</sub> =15mA                                                                              | -   | -   | 1    | V    |
| Reverse Leakage Current       | I <sub>R</sub>      | V <sub>R</sub> =50V                                                                               | -   | -   | 200  | nA   |
| Capacitance Between Terminals | C <sub>T</sub>      | V <sub>R</sub> =0V, f=1MHz                                                                        | -   | -   | 2    | pF   |
| Reverse Recovery Time         | t <sub>rr</sub>     | I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1*I <sub>R</sub><br>R <sub>L</sub> =100Ω | -   | -   | 1    | ns   |

### Ratings and Characteristic Curves (T<sub>A</sub>=25°C unless otherwise noted)



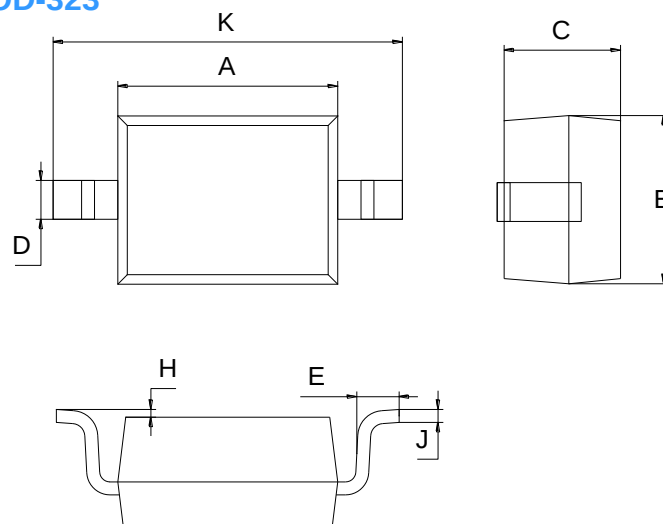
### Package Outline Dimensions (unit: mm)

#### SOD-123



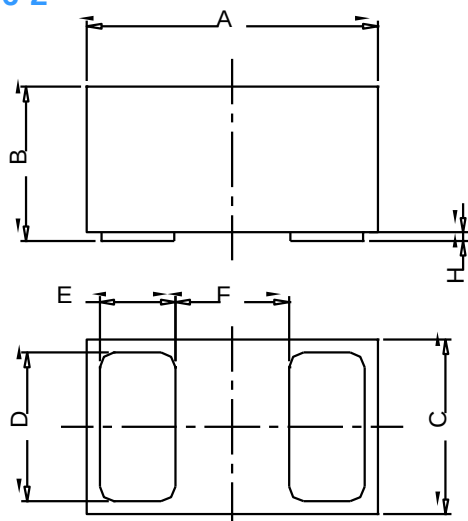
| SOD-123 |      |      |
|---------|------|------|
| Dim     | Min  | Max  |
| A       | 1.45 | 1.75 |
| B       | 2.55 | 2.85 |
| C       | 1.00 | 1.30 |
| D       | 0.50 | 0.60 |
| E       | 0.25 | 0.45 |
| H       | 0.02 | 0.10 |
| J       | 0.05 | 0.15 |
| K       | 3.55 | 3.85 |

#### SOD-323



| SOD-323 |      |      |
|---------|------|------|
| Dim     | Min  | Max  |
| A       | 1.60 | 1.80 |
| B       | 1.20 | 1.40 |
| C       | 0.80 | 0.90 |
| D       | 0.25 | 0.35 |
| E       | 0.22 | 0.42 |
| H       | 0.02 | 0.10 |
| J       | 0.05 | 0.15 |
| K       | 2.55 | 2.75 |

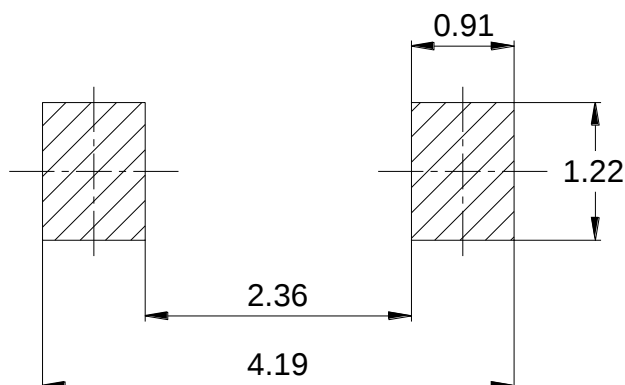
#### DFN1006-2



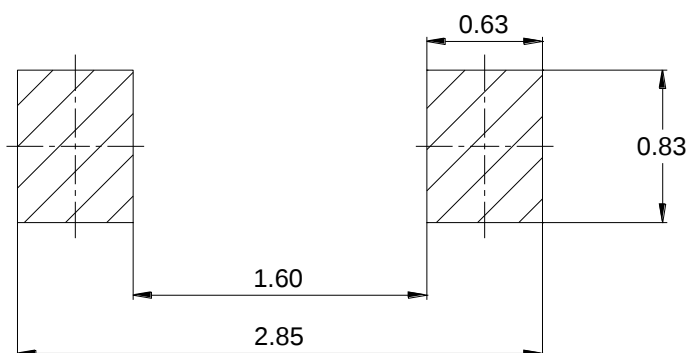
| DFN1006-2 |      |      |       |
|-----------|------|------|-------|
| Dim       | Min  | Typ  | Max   |
| A         | 0.95 | 1.00 | 1.075 |
| B         | 0.47 | 0.50 | 0.53  |
| C         | 0.55 | 0.60 | 0.675 |
| D         | 0.45 | 0.50 | 0.55  |
| E         | 0.20 | 0.25 | 0.30  |
| F         | -    | 0.40 | -     |
| H         | 0    | 0.03 | 0.05  |

**Mounting Pad Layout** (unit: mm)

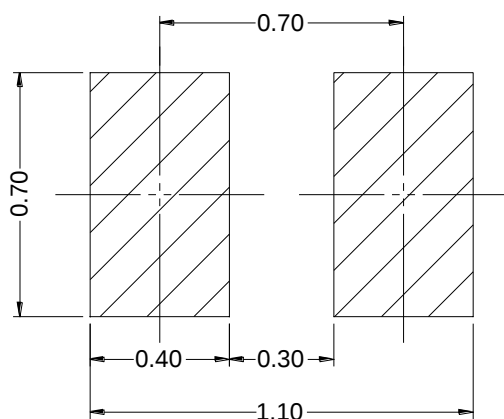
**SOD-123**



**SOD-323**



**DFN1006-2**



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