



# WSR3001S

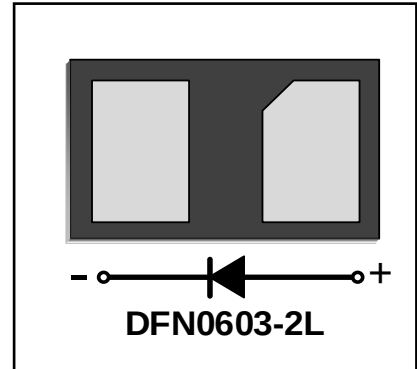
## Schottky Barrier Diode

### Features

- Low Forward Voltage
- Low Current Leakage
- Extremely Small Surface Mounting Type (DFN0603)
- RoHS Compliant / Green EMC

### Applications

- High Speed Switch For Detection
- Low Current Rectification



### Absolute Maximum Rating

| Parameter                                             | Symbol          | Value      | Unit          |
|-------------------------------------------------------|-----------------|------------|---------------|
| Repetitive Peak Reverse Voltage                       | $V_{RRM}$       | 30         | V             |
| Mean Rectifying Current                               | $I_O$           | 0.1        | A             |
| Non-Repetitive Peak Forward Surge Current @ $t=8.3ms$ | $I_{FSM}$       | 0.5        | A             |
| Power Dissipation                                     | $P_D$           | 100        | mW            |
| Thermal Resistance Junction to Ambient                | $R_{\theta JA}$ | 1000       | $^{\circ}C/W$ |
| Operating Junction Temperature Range                  | $T_J$           | -40 ~ +125 | $^{\circ}C$   |
| Storage Temperature Range                             | $T_{stg}$       | -55 ~ +150 | $^{\circ}C$   |

### Electrical Characteristics ( $T_{amb}=25^{\circ}C$ unless otherwise noted)

| Parameter                       | Symbol   | Test Conditions | Min. | Typ. | Max. | Unit    |
|---------------------------------|----------|-----------------|------|------|------|---------|
| Reverse Breakdown Voltage       | $V_{BR}$ | $I_R = 50\mu A$ | 30   | -    | -    | V       |
| Reverse Voltage Leakage Current | $I_R$    | $V_R = 10V$     | -    | -    | 0.3  | $\mu A$ |
|                                 |          | $V_R = 30V$     | -    | -    | 20   |         |
| Forward Voltage                 | $V_F$    | $I_F = 10mA$    | -    | -    | 0.45 | V       |
|                                 |          | $I_F = 100mA$   | -    | -    | 0.65 |         |

Typical Characteristics

Figure 1. Forward Characteristics

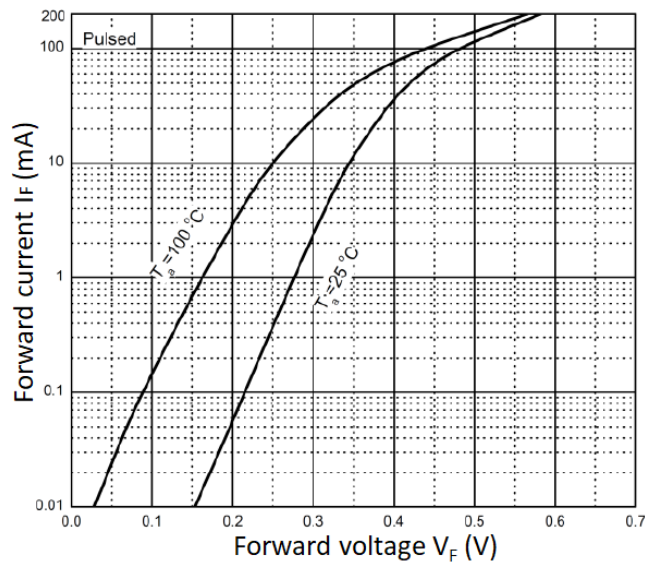


Figure 2. Reverse Characteristics

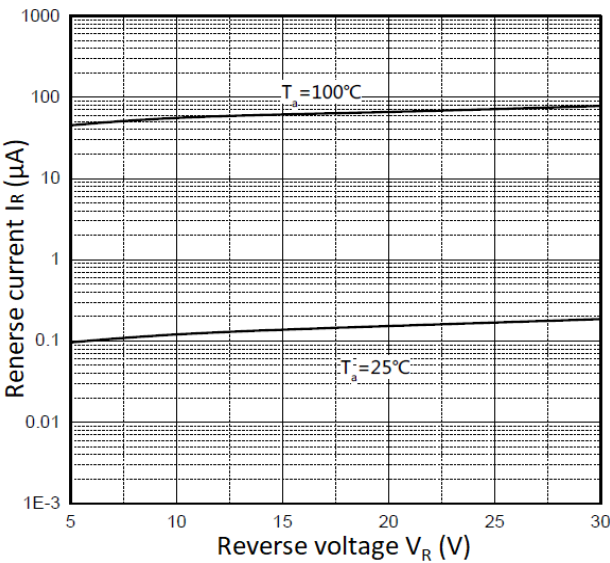


Figure 3. Capacitance Characteristics

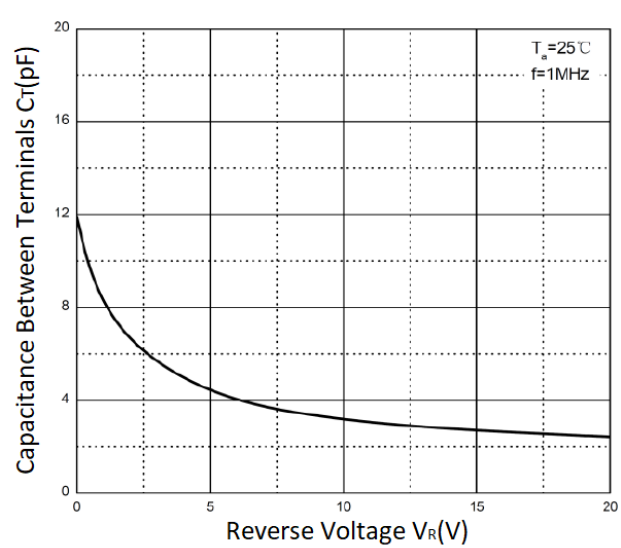
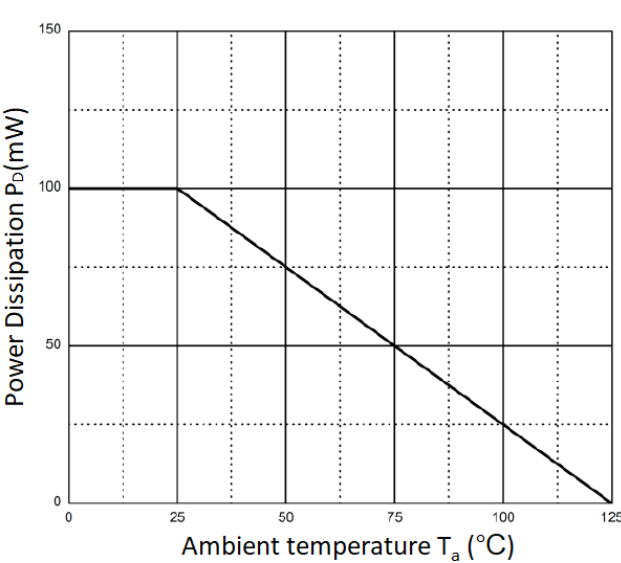
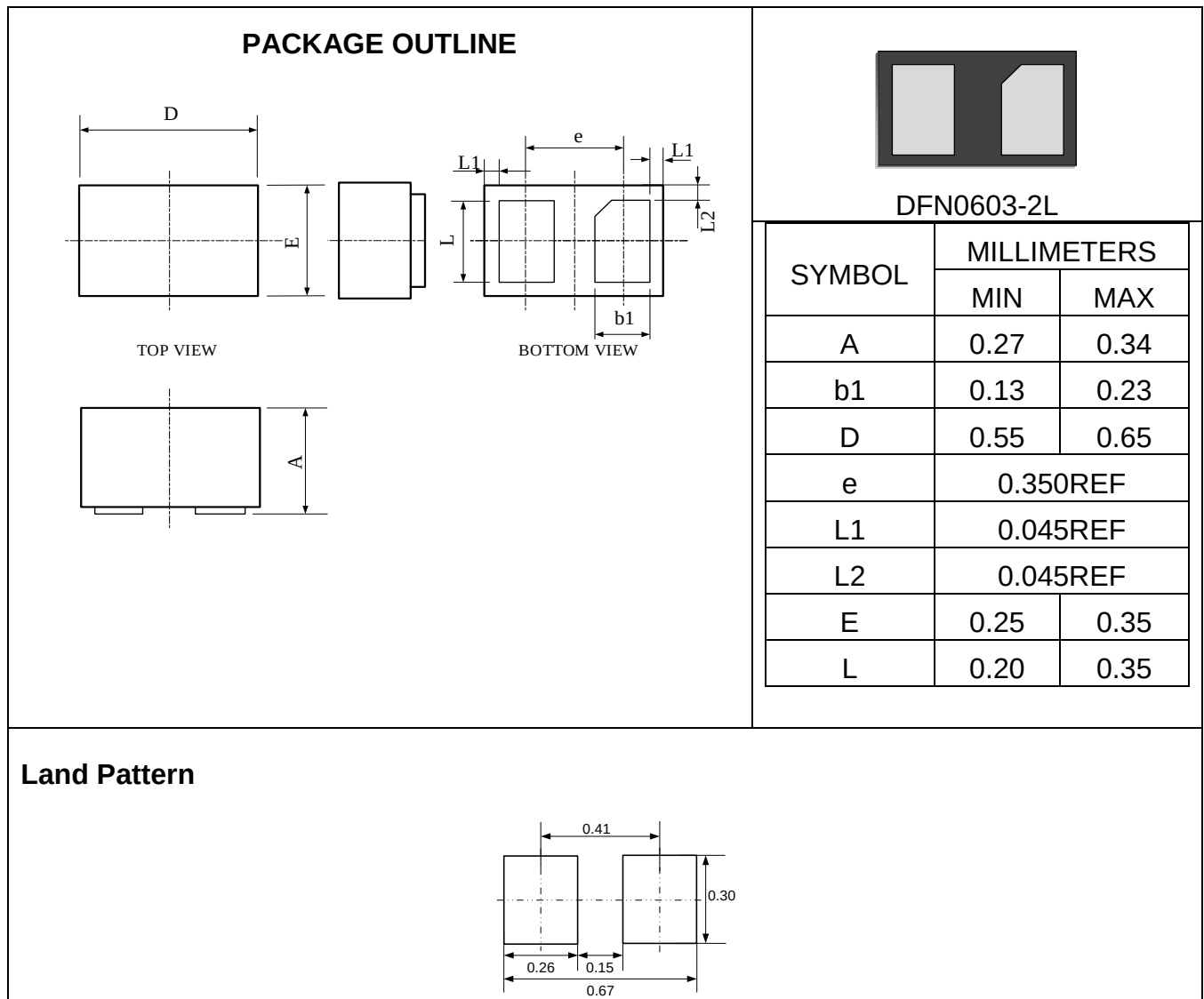


Figure 4. Power Derating Curve



## Outline Drawing –DFN0603-2L



## Marking Codes

|              |          |
|--------------|----------|
| Part Number  | WSR3001S |
| Marking Code |          |

## Package Information

Qty: 10k/Reel

## CONTACT INFORMATION

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For additional information, please contact your local Sales Representative.

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Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.