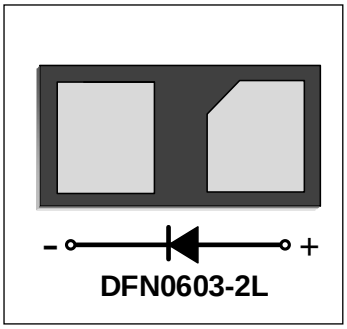
# WSR40V3S

**Schottky Barrier Diode**

## Feature

- Low Forward Voltage
- Low Current Leakage
- Small Outline Surface Mount Package
- RoHS Compliant / Green EMC




## Applications

- Low Current Rectification
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications

## Absolute Maximum Rating ($T_{amb}$=25°C unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Peak Repetitive Peak Reverse Voltage | $V_R$ | 40 | V |
| Mean Rectifying Current | $I_O$ | 30 | mA |
| Non-Repetitive Peak Forward Surge Current @ t=8.3ms | $I_{FSM}$ | 200 | mA |
| Power Dissipation | $P_D$ | 100 | mW |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 1000 | °C/W |
| Junction Temperature | $T_J$ | 125 | °C |
| Storage Temperature | $T_{stg}$ | -55 to 125 | °C |

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

| Parameter | Symbol | Test Conditions | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Reverse Breakdown Voltage | $V_{BR}$ | $I_R$ = 1mA | 40 | - | - | V |
| Reverse Voltage Leakage Current | $I_R$ | $V_R$ = 30V | - | - | 0.5 | μA |
| Forward Voltage | $V_F$ | $I_F$ = 1mA | - | - | 0.37 | V |
| Typical Junction Capacitance | $C_J$ | $V_R$= 1V, f=1.0MHz | - | 2 | - | pF |

©2022 WAYON Corporation

## Typical Characteristics

Figure 1. Forward Characteristics

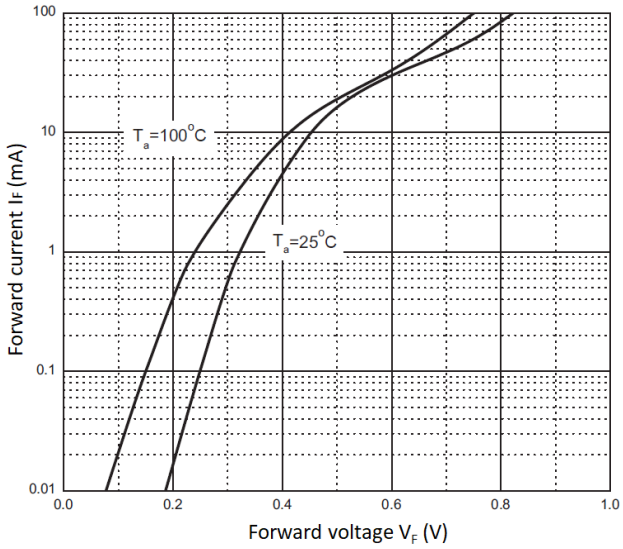
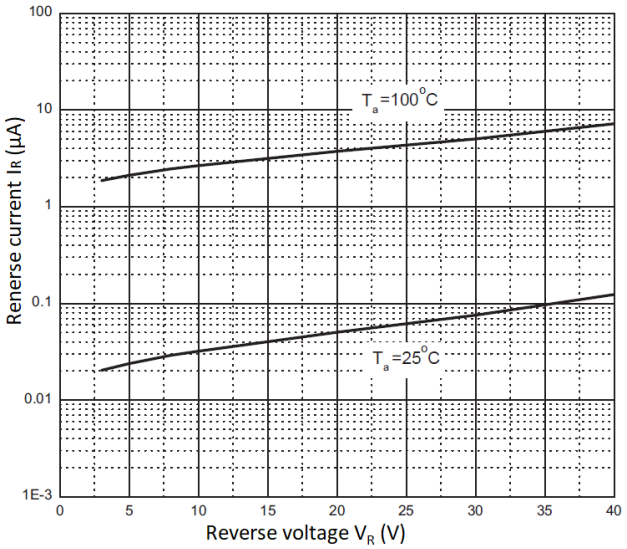
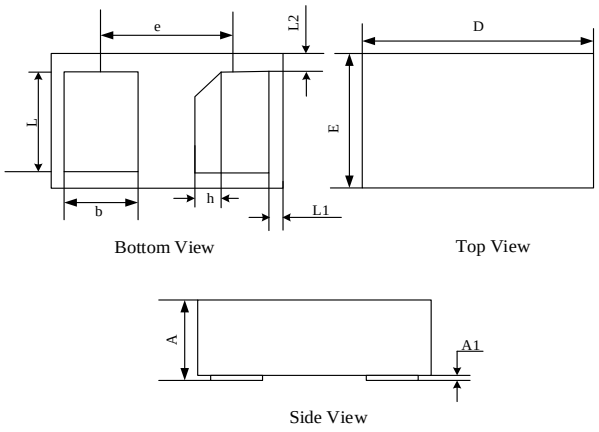


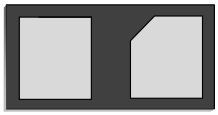

Figure 2. Reverse Characteristics



# Outline Drawing –DFN0603-2L

## PACKAGE OUTLINE

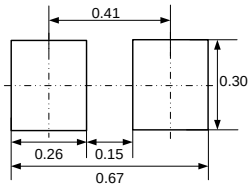


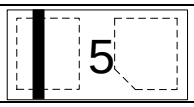
DFN0603-2L

| SYMBOL | MILLIMETERS | | |
|---|---|---|---|
| | NOM | MIN | MAX |
| A | -- | 0.280 | 0.320 |
| A1 | -- | -- | 0.050 |
| D | 0.610 | 0.570 | 0.630 |
| E | 0.310 | 0.270 | 0.330 |
| b | 0.180 | 0.155 | 0.205 |
| L | 0.240 | 0.200 | 0.260 |
| h | -- | 0.050 | 0.100 |
| L1 | 0.035REF | | |
| L2 | 0.035REF | | |
| e | 0.360BSC | | |

## Land Pattern




# Marking Codes

| Part Number | WSR40V3S |
|---|---|
| Marking Code |  |



# Package Information

Qty：15k/Reel

## CONTACT INFORMATION

No.1001, Shiwan (7) Road, Pudong District, Shanghai, P.R.China.201207
Tel: 86-21-68969993 Fax: 86-21-50757680 Email: market@way-on.com
WAYON website: **http://www.way-on.com**

For additional information, please contact your local Sales Representative.

WAYON ® is registered trademark of WAYON Corporation.

*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.*