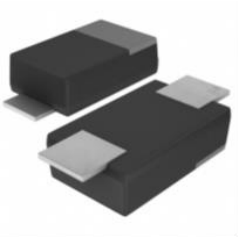
# WSRxx30D1FL

## SCHOTTKY BARRIER RECTIFIER

## Features

- 3A Schottky barrier diode
- Schottky barrier rectifier
- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance



SOD-123FL

## Mechanical Data

- Case: SOD-123FL, molded plastic body
- Mounting position: any
- Polarity: Color band denotes cathode end

## Absolute Maximum Ratings and Electronics characteristics

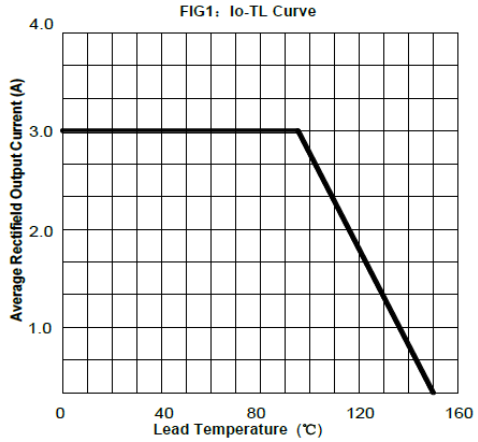
Ratings@25℃ ambient temperature unless otherwise specified

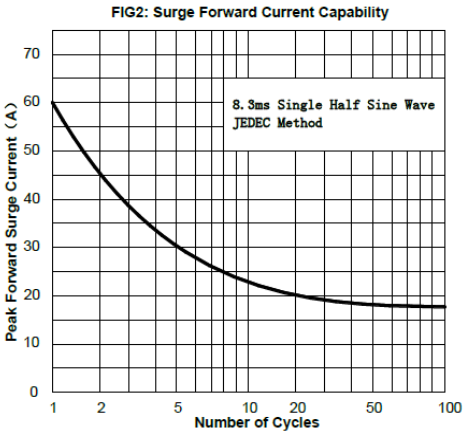
| Parameter | Symbol | WSR4030D1FL | WSR6030D1FL | WSR10030D1FL | UNITS |
|---|---|---|---|---|---|
| Maximum repetitive peak reverse voltage | $V_{RRM}$ | 40 | 60 | 100 | V |
| Maximum RMS voltage | $V_{RWS}$ | 28 | 42 | 70 | V |
| Maximum DC blocking voltage | $V_{DC}$ | 40 | 60 | 100 | V |
| Maximum average forward rectified current | $I_{F(AV)}$ | 3.0 | | | A |
| Peak forward surge current 8.3ms single half-sine-wave | $I_{FSM}$ | 60 | | | A |
| Maximum instantaneous forward voltage at $I_F$=3.0A | $V_F$ | 0.45 | 0.5 | 0.6 | V |
| Maximum DC reverse current (Ta= 25℃)<br>at rated DC reverse voltage (Ta=100℃) | $I_R$ | 0.5<br>10 | | | mA |
| Typical thermal resistance(junction to ambient)(1) | $R_{\theta JA}$ | 70 | | | ℃/W |
| Operating temperature range | Tj | -55 ~ +150 | | | ℃ |
| Storage temperature range | $T_{STG}$ | -55 ~ +150 | | | ℃ |

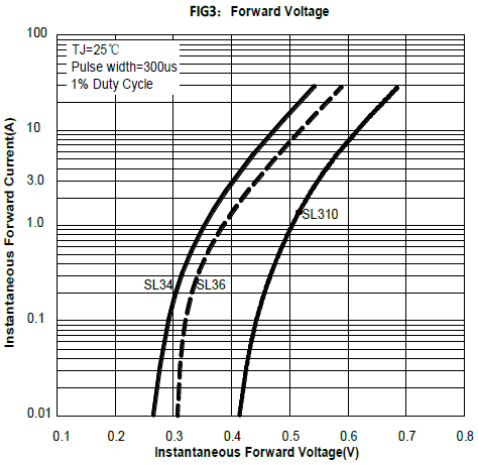
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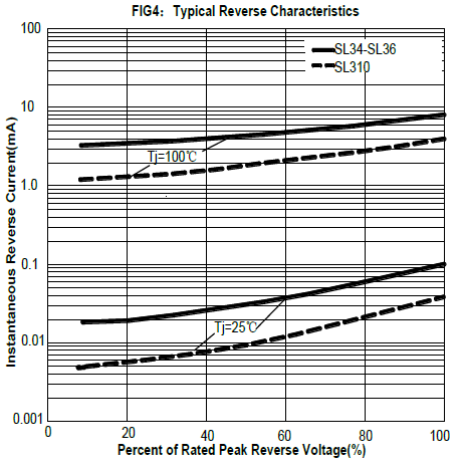
(1) Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B with 3mm*3mm copper pad areas.

## Typical characteristics (Ta=25°C, unless otherwise noted)



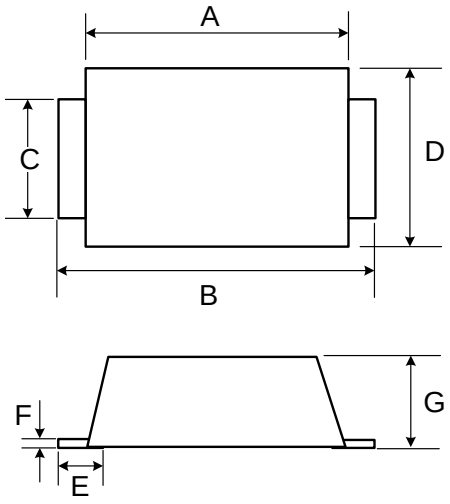



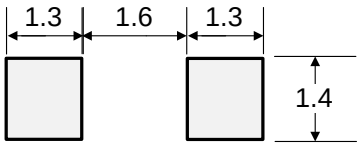

## Outline Drawing

| Ref.（mm） | Millimeters | |
|---|---|---|
| | Min. | Max. |
| A | 2.50 | 2.95 |
| B | 3.40 | 3.95 |
| C | 0.70 | 1.10 |
| D | 1.50 | 1.95 |
| E | 0.35 | 0.95 |
| F | 0.05 | 0.26 |
| G | 0.90 | 1.40 |




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## Recommended Solder Pad Layout




Dimensions in mm

## Marking Code

| Part Number | WSR4030D1FL | WSR6030D1FL | WSR10030D1FL |
|---|---|---|---|
| Marking Code | SL34 | SL36 | SL310 |

## Package Information

**Tape & Reel**: 3000 pcs.

## Contact Information

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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.*